

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SIXTH ANNUAL REPORT

TO THE
GOVERNOR OF CALIFORNIA
BY THE
DIRECTOR OF PUBLIC WORKS

JANUARY, 1953

Russell Munro

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SIXTH ANNUAL REPORT
TO THE
GOVERNOR OF CALIFORNIA
BY THE
DIRECTOR OF PUBLIC WORKS

January, 1953



EARL WARREN
Governor

FRANK B. DURKEE
*Director of Public Works and
Chairman, California Highway Commission*

G. T. McCOY
*State Highway Engineer and
Chief of Division of Highways*

TABLE OF CONTENTS

	Page
Personnel of the Division of Highways.....	8
Personnel of the California Highway Commission.....	10
Calendar of Meetings of California Highway Commission.....	10
Past Members of the California Highway Commission.....	11
Letter of Director of Public Works to the Governor.....	13
Annual Report of the State Highway Engineer.....	15
Operations	23
Construction	23
Maintenance	31
Materials and Research.....	47
Equipment	54
Administrative Functions of Operations.....	61
Administration	67
Federal Aid	107
County and County Cooperative Projects.....	117
City and City Cooperative Projects.....	125
Service and Supply.....	127
Planning	133
Planning	133
Design	143
Traffic	147
Special Studies and Highway Planning Survey.....	151
Budget	153
Bridges	157
Bridge Planning and Design.....	159
Bridge Research	163
Bridge Operations	165
San Francisco-Oakland Bay Bridge.....	174
San Mateo-Hayward and Dumbarton Bridges.....	183
Carquinez Bridge	189
Public Relations and Personnel.....	191
Public Relations	191
Personnel Management and Training.....	192
Safety Education	194
Right of Way.....	197
Right of Way Transactions.....	197
Protection Problem	198
Legal	203
Accounting	207
APPENDIX A	
Accounting and Financial Statements.....	209
APPENDIX B	
Apportionment of Motor Vehicle Fees and Fuel Taxes.....	243
APPENDIX C	
Contract Statistics	249
APPENDIX D	
Average Contract Prices.....	383
APPENDIX E	
Map of California Showing State Highway System..... (See Pocket Inside Back Cover)	

LIST OF ILLUSTRATIONS

	Page
World Famous Monterey Cypress along Monterey County Coast-----	12
Burney Falls near Redding-Alturas Lateral, U. S. 299 in Shasta County-----	16
Davis Street Interchange on Eastshore Freeway in Alameda County. San Leandro Creek Bridge in background. Federal aid project-----	18
Aerial view of Hollywood Freeway looking easterly toward Los Angeles Civic Center. Four-level structure in foreground. Federal aid project-----	20
Aerial view of Harbor Freeway looking north in Los Angeles and showing grade separation structures under construction and grading in progress. Eighth Street Undercrossing in foreground. Federal aid project-----	22
Aerial view: experimental fill across portion of San Francisco Bay on Bayshore Freeway south of Candlestick Point in San Mateo County. Federal aid project-----	24
Concrete paving operations on Los Angeles River Freeway-----	25
Road-mixed cement treated base on State Highway in Riverside County showing mixing, spreading and compacting operations.-----	26
Combined pneumatic tired roller and motor grader in use on State Highway through Cajon Pass in San Bernardino County, U. S. 66. Federal aid project-----	27
Construction operations on Santa Ana Freeway at Main Street crossing in City of Santa Ana. Federal aid project-----	28
Grade separation structure at junction of State Highway Route 207 (under) and State Highway Route 43 (over) in San Bernardino County. Federal aid sec- ondary project-----	29
Snow removal operations on U. S. 40 near Donner Summit, showing depth of pack -----	30
Traffic congestion on U. S. 40 in Contra Costa County north of San Pablo-----	32
Two Snogos "blowing" snow on U. S. 40 at Blue Canyon Airport in Placer County-----	34
Digging out "City of San Francisco" stalled by snow in January, 1952, near Yuba Gap on U. S. 40 in Placer County-----	34
Snow removal operations on State Highway in El Dorado County-----	36
Night view of snow removal on U. S. 40 at Blue Canyon Airport in Placer County-----	38
"Over cab" truck loader for loading sweepings from streets and freeways. Made in Headquarters Shop-----	38
Night scene on Eastshore Freeway at 23d Avenue Overcrossing in Oakland-----	42
Portable foundation exploration drill on Pontoon Float-----	46
Geophysical equipment used in subsurface explorations for fills, cuts, quarries and foundations -----	46
Field extractor developed by pavement section of Materials and Research Labora- tory -----	48
Stabilometer used in Materials and Research Laboratory for standard R-value test for establishing flexible pavement design-----	49
Examples of concrete specimens cored from pavements for study by concrete sec- tion of Materials and Research Laboratory-----	50
California-type mechanical compactor constructed in the Materials and Research Department -----	51
Construction of all-welded steel girder being inspected by Materials and Research Department -----	52
Suction-type litter collector—operating position-----	56

LIST OF ILLUSTRATIONS—Continued

	Page
Suction-type litter collector—dumping position-----	56
Personnel hoist for overhead work shown in lowered position-----	58
Personnel hoist for overhead work, fully extended. Vertical height from platform to ground 36 feet 6 inches-----	59
Extra heavy duty wrecker truck used on San Francisco-Oakland Bay Bridge. Assembled in equipment shops-----	60
Crossing of Fourth Street over Santa Ana Freeway in City of Santa Ana (U. S. 101) -----	62
"E" Street Overcrossing on Montgomery Freeway in Chula Vista on U. S. 101 in San Diego County. Federal aid project-----	64
Aerial view of Santa Ana Freeway near Eastman Avenue in Los Angeles County, showing paving operations in progress. Federal aid project-----	65
Aerial view of Hollywood Freeway looking east toward Los Angeles Civic Center showing traffic using the freeway. Alvarado Street Undercrossing in foreground. Federal aid project-----	66
Washington Avenue Interchange on Eastshore Freeway north of San Lorenzo in Alameda County. Federal aid project-----	68
County road improvement partially financed with F. A. S. funds. Carmel Valley Road in Monterey County-----	69
Aerial view of Ramona Freeway looking easterly showing Floral Park Pacific Electric Ry. Underpass; Floral Park on ramp; Warwick Road Overcrossing and Fremont Avenue Undercrossing. Federal aid project-----	71
Bridge across West Walker River about two miles south of Coleville in Mono County. Federal aid secondary Route 1094-----	72
Atlantic Boulevard Interchange on Santa Ana Freeway in Los Angeles County. Union Pacific Railroad Crossing in foreground. Federal aid project-----	76
Hegenberger Road Interchange on Eastshore Freeway in Oakland. Federal aid project -----	80
Grading operations on Bayshore Freeway in San Francisco. Recently completed Army Street Undercrossing in extreme right. Federal aid project-----	81
Erecting steel for viaduct on Bayshore Freeway in San Francisco. Vermont Street in foreground. Federal aid project-----	84
Concrete piers for new freeway bridge at Elvas Crossing of American River, which will provide a new approach to Sacramento from the north. Federal aid project-----	86
Early construction operations on Hollywood Freeway at Cahuenga Pass. Hollywood Bowl lower left-----	87
Aerial view of Hollywood Freeway under construction, looking westerly from Western Avenue to Cahuenga Pass. Federal aid project-----	90
Aerial view of portion of Santa Ana and Hollywood Freeways showing excavation for Alameda Street Overcrossing. Federal aid project-----	91
Santa Ana Freeway in City of Santa Ana. Lincoln Avenue and A. T. & S. F. Railway Crossings in foreground. Seventeenth Street in background. Federal aid project-----	94
Aerial view of Santa Ana Freeway showing excavation for Alameda Street. Union Station in background. Federal aid project-----	95
On Ramona Freeway showing grade separation structures for freeway, Frontage Roads and Pacific Electric Railway Crossings over Rosemead Boulevard. Federal aid project-----	98

LIST OF ILLUSTRATIONS—Continued

	Page
Ramona Freeway near Campbell Avenue in Alhambra during construction showing pedestrian overcrossings. Atlantic Avenue in background. Federal aid project	99
First completed section of Harbor Freeway between four-level structure and Third Street Ramps in Downtown Los Angeles. Federal aid project	102
Aerial view of Hollywood Freeway in Los Angeles showing four-level structure with connections to Arroyo Seco and Harbor Freeways. Federal aid project	106
Construction operations on Harbor Freeway in Downtown Los Angeles showing Fifth Street, Sixth Street, Wilshire Boulevard, Seventh Street and Eighth Street structures from left to right. Federal aid project	108
Bridges carrying Montgomery Freeway (U. S. 101) over 24th Street in National City, San Diego County. Federal aid project	110
Construction operations on Hollywood Freeway over Franklin Avenue in Hollywood. Federal aid project	111
Steel girder bridge across Sacramento River at Anderson in Shasta County. F. A. S. county road project	116
F. A. S. improvement to county road in Riverside County between Arlington and Riverside	118
County road improvement partially financed with F. A. S. funds between state hospital and Imola in Napa County	118
Improvement to county road over State Range between Trona and Panamint Valley in Inyo County. Partially financed with F. A. S. funds	120
F. A. S. improvement to county road southeast of Lakeville in Sonoma County	122
San Gabriel River Bridge on Valley Boulevard in Los Angeles County. Federal aid secondary Route 852	123
Fork lift handling large timbers at Division of Highways Warehouse	128
Fork lift handling lumber at Division of Highways Warehouse	129
Fork lift with attachment for handling culvert pipe at Division of Highways Warehouse	130
Los Angeles River Freeway in Long Beach. Willow Street overcrossing in foreground. Federal aid project	132
Mission Avenue Interchange on freeway through Oceanside (U. S. 101) in San Diego County. Federal aid project	134
Aerial view of Harbor Freeway in Downtown Los Angeles showing Olympic Boulevard Undercrossing in foreground. Federal aid project	136
Belhart Street Interchange on Los Angeles River Freeway in Long Beach	142
Aerial construction view of reinforced concrete multiple arch bridge across Arroyo Seco on Colorado Street in Pasadena. Old bridge in foreground	144
Lakewood Boulevard Undercrossing on Santa Ana Freeway, showing connecting ramps. Federal aid project	145
Recently completed Mokelumne River Bridge on Mother Lode Highway at Amador-Calaveras County Line. Old bridge on right	146
Congested traffic conditions on U. S. 101 near Santa Rosa	148
Traffic on U. S. 40 at Watt Avenue (McClellan Field Intersection) in Sacramento County	150
Traffic congestion on two-lane section of U. S. 99-50 near Florin Road south of Sacramento	154
"Silhouettes Against the Sky." Erecting steel for Bayshore Freeway Viaduct in San Francisco. Federal aid project	156

LIST OF ILLUSTRATIONS—Continued

	Page
Colorado Street Viaduct under construction on Colorado Freeway in Pasadena----	160
South portal of Gaviota Tunnel on U. S. 101 in Santa Barbara County-----	162
Operations at working face of tunnel at Gaviota Gorge on U. S. 101 in Santa Barbara County -----	162
Foundation excavation for steel viaduct on Bayshore Freeway in City of San Francisco, Federal aid project-----	166
Pedestrian overcrossing on Ramona Freeway in Los Angeles County showing spiral approach ramp. Federal aid project-----	167
Aerial view of Santa Ana Freeway looking southeasterly showing construction of Slauson Avenue-Pacific Electric Ry. grade separation and Rio Hondo Bridge. Federal aid project-----	168
Placing movable arch-rib forms on new Colorado Street Bridge across Arroyo Seco in Pasadena-----	169
Erecting steel plate girders for Simons Underpass on Santa Ana Freeway in Los Angeles County, Federal aid project-----	170
New bridge for southbound traffic across Van Duzen River five miles south of Fortuna in Humboldt County. Northbound traffic uses old bridge on right-----	171
Pajaro River Bridge on State Sign Route 1 at south approach to Watsonville at Monterey-Santa Cruz County line-----	173
Typical coastal scene along State Sign Route 1 in Monterey County south of Carmel -----	190

DEPARTMENT OF PUBLIC WORKS

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 FRANK B. DURKEE, Director of Public Works

DIVISION OF HIGHWAYS

G. T. McCoy, Sacramento
 State Highway Engineer and Chief of Division of Highways

HEADQUARTERS STAFF

Public Works Building, Sacramento

R. M. GILLIS Deputy State Highway Engineer

OPERATIONS

EARL WITHYCOMBE Assistant State Highway Engineer
 D. G. Evans Construction Engineer
 G. F. Hellesoe Maintenance Engineer
 F. N. Hveem Materials and Research Engineer
 E. E. Sorenson Equipment Engineer
 E. J. Saldine Principal Highway Engineer

ADMINISTRATION

RICHARD H. WILSON Assistant State Highway Engineer
 H. C. McCarty Office Engineer
 H. B. LaForge Engineer, County and Cooperative Projects
 L. V. Campbell Engineer, City and Cooperative Projects
 Milton Harris Service and Supply Engineer

PLANNING

J. W. VICKREY Assistant State Highway Engineer
 J. C. Womack Planning Engineer
 J. C. Young Design Engineer
 E. T. Telford Traffic Engineer
 F. M. Reynolds Engineer, Special Studies and Highway Planning Survey
 H. L. Kile Budget Engineer

BRIDGES

F. W. PANHORST Assistant State Highway Engineer
 Stewart Mitchell Bridge Engineer—Planning
 I. O. Jahlstrom Bridge Engineer—Operations
 E. L. Walsh Bridge Office Engineer
 R. R. Rowe Bridge Research Engineer
 H. C. Wood San Francisco-Oakland Bay Bridge Engineer

PUBLIC RELATIONS AND PERSONNEL

CHAS. E. WAITE Assistant State Highway Engineer
 J. P. Murphy Principal Highway Engineer
 S. H. Lathrop Assistant Engineer—Personnel Management
 A. I. Rivett Coordinator of Traffic Safety Education

RIGHT OF WAY

FRANK C. BALFOUR-----Chief Right of Way Agent
 E. F. Wagner-----Deputy Chief Right of Way Agent
 R. S. J. Pianezzi-----Assistant Chief Right of Way Agent, Administration
 E. M. MacDonald-----Assistant Chief Right of Way Agent, Appraisals
 G. S. Pingry-----Assistant Chief Right of Way Agent, Field Supervision, North

ACCOUNTING

E. R. HIGGINS-----Comptroller
 Bert Sellier-----Assistant Comptroller
 W. S. Cully-----Assistant Comptroller

DISTRICT ENGINEERS

<i>District</i>		<i>Office</i>
I.	C. V. Kane-----	Eureka
II.	J. W. Trask-----	Redding
III.	A. M. Nash-----	Marysville
IV.	B. W. Booker, Assistant State Highway Engineer,-----	San Francisco
	J. P. Sinclair, District Engineer	
	L. A. Weymouth, District Engineer	
V.	E. J. L. Peterson-----	San Luis Obispo
VI.	E. T. Scott-----	Fresno
VII.	P. O. Harding, Assistant State Highway Engineer-----	Los Angeles
	W. F. Fahey, District Engineer	
	M. E. Cessna, District Engineer	
VIII.	S. W. Lowden-----	San Bernardino
IX.	A. S. Hart-----	Bishop
X.	J. G. Meyer-----	Stockton
XI.	E. E. Wallace-----	San Diego

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
CALIFORNIA HIGHWAY COMMISSION

FRANK B. DURKEE, Chairman, Ex Officio, Sacramento

<i>Member</i>	<i>Residence</i>	<i>Date of Original Appointment</i>	<i>Term Expires</i>
CHESTER H. WARLOW, Fresno	-----	Sept. 14, 1943	Jan. 15, 1953
JAMES A. GUTHRIE, San Bernardino	-----	Sept. 14, 1943	Jan. 15, 1953
HARRISON R. BAKER, Pasadena	-----	Sept. 14, 1943	Jan. 15, 1954
CHARLES T. LEIGH, San Diego	-----	May 11, 1949	Jan. 15, 1955
H. STEPHEN CHASE, Sacramento	-----	Oct. 30, 1951	Jan. 15, 1955
F. WALTER SANDELIN, Ukiah	-----	Sept. 14, 1943	Jan. 15, 1956

Secretary : R. C. KENNEDY, Sacramento

CALENDAR OF MEETINGS

CALIFORNIA HIGHWAY COMMISSION

July 1, 1951, to June 30, 1952

July 18 and 19, 1951	-----	Sacramento
August 21, 1951	-----	San Francisco
August 22, 1951	San Francisco (a.m.)	Oakland (p.m.)
August 23, 1951	-----	San Francisco
September 18, 19, and 20, 1951	-----	Sacramento
October 17 and 18, 1951	-----	Sacramento
November 13, 14, and 15, 1951	-----	Los Angeles
December 12 and 13, 1951	-----	Sacramento
January 15, 1952	-----	San Diego
January 16, 1952	-----	El Centro
* January 17, 1952	-----	Calexico
† January 30, 1952	-----	Los Angeles
February 20 and 21, 1952	-----	Sacramento
March 27 and 28, 1952	-----	Sacramento
April 23 and 24, 1952	-----	Sacramento
May 12, 13, 14, and 15, 1952	-----	Sacramento
‡ May 28, 1952	-----	Los Angeles
June 10, 11 and 12, 1952	-----	Sacramento
§ June 12 (p.m.), 13, 14, 15, and 16, 1952	-----	On Tour

* Inspection of state highways in Imperial, San Bernardino, and Los Angeles Counties.

† Special meeting re Los Angeles International Airport.

‡ Special meeting re proposed location of freeway through El Monte.

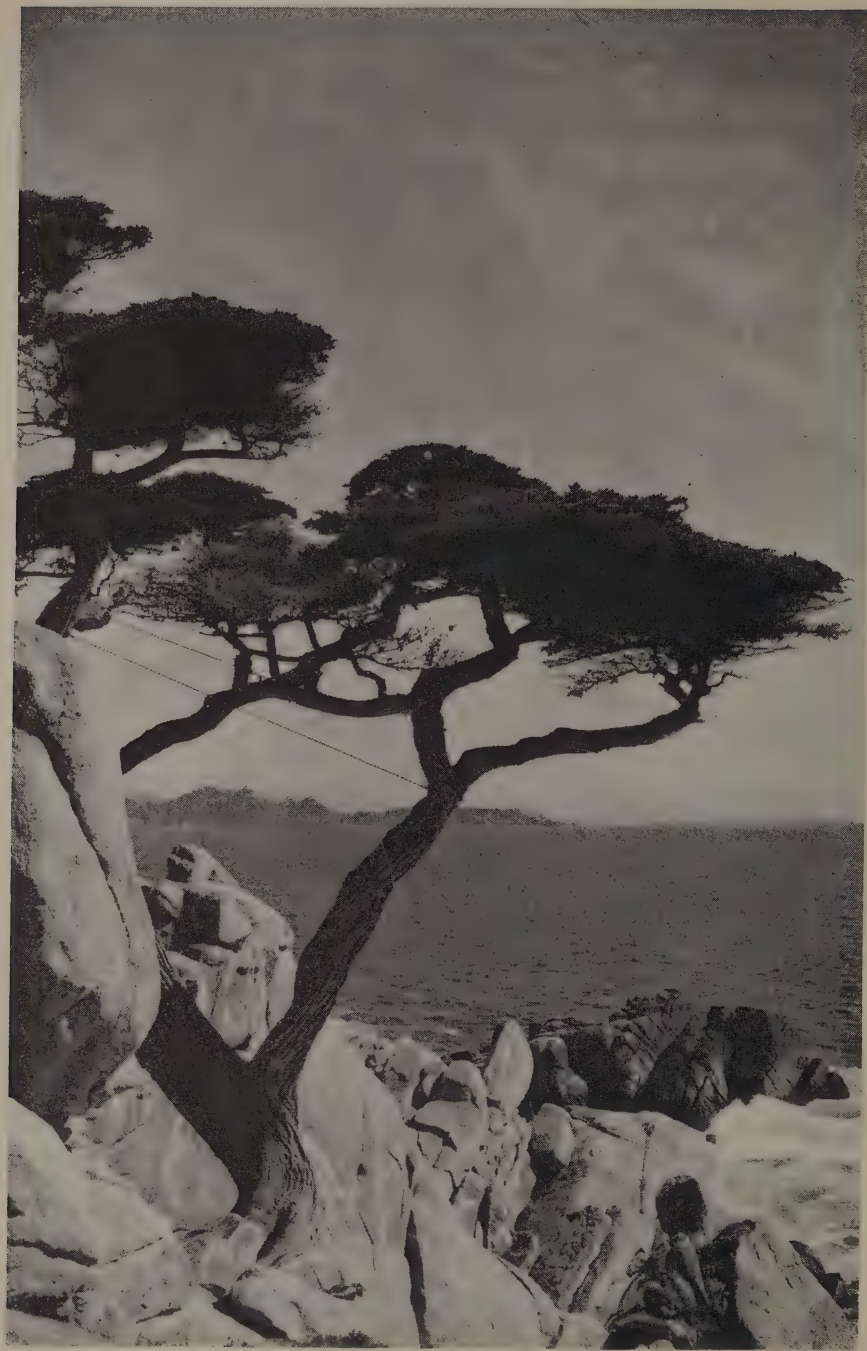
§ Inspection tour of counties in San Joaquin Valley.

PAST MEMBERS OF THE CALIFORNIA HIGHWAY COMMISSION

Name	Residence	Date of appointment	Termination of membership
Burton A. Towne*	Lodi	Aug. 2, 1911	Resigned Jan. 14, 1914
Charles D. Blaney*	Saratoga	Aug. 2, 1911	Resigned Mar. 1, 1917
N. D. Darlington	Los Angeles	Aug. 2, 1911	Resigned Jan. 8, 1923
Charles F. Stern	Eureka	Jan. 15, 1914	Resigned Dec. 21, 1918
Henry J. Widenmann*	Vallejo	Mar. 1, 1917	Died Oct. 6, 1918
Charles A. Whitmore*	Visalia	Nov. 29, 1918	Resigned Jan. 8, 1923
Emmett Phillips*	Sacramento	Dec. 21, 1918	Died June 18, 1919
George C. Mansfield*	Oroville	June 24, 1919	Resigned Jan. 9, 1923
Harvey M. Toy*	San Francisco	Jan. 9, 1923	Resigned Jan. 3, 1927
Louis Everding*	Arcata	Jan. 9, 1923	Resigned Jan. 17, 1927
Nelson T. Edwards*	Orange	Jan. 10, 1923	Resigned Jan. 3, 1927
Ralph W. Bull*	Eureka	Jan. 6, 1927	Resigned Jan. 6, 1931
J. P. Baumgarther*	Santa Ana	Jan. 6, 1927	Resigned Jan. 6, 1931
M. B. Harris*	Fresno	April 18, 1927	Resigned Jan. 6, 1931
Joseph N. Schenck	Los Angeles	Aug. 19, 1927	Resigned Jan. 6, 1931
Fred S. Moody*	San Francisco	Aug. 19, 1927	Resigned Jan. 6, 1931
Earl Lee Kelly	Redding	Jan. 6, 1931	Resigned Oct. 18, 1932
Frank A. Tetley*	Riverside	Jan. 6, 1931	Resigned July 31, 1935
Timothy A. Reardon	San Francisco	Jan. 6, 1931	Resigned May 7, 1936
Harry A. Hopkins	Taft	Jan. 6, 1931	Resigned Oct. 14, 1937
Philip A. Stanton*	Anaheim	Jan. 6, 1931	Resigned Mar. 3, 1939
Dr. W. W. Barham	Yreka	Dec. 20, 1932	Resigned May 21, 1935
Ray Ingels	Ukiah	May 21, 1935	Resigned Oct. 4, 1935
C. D. Hamilton *	Banning	Aug. 1, 1935	Died April 24, 1936
H. R. Judah	Santa Cruz	May 7, 1936	Resigned Oct. 5, 1937
Paul G. Jasper*	Fortuna	May 7, 1936	Resigned Mar. 3, 1939
William T. Hart*	Carlsbad	July 7, 1936	Resigned Mar. 3, 1939
Robert S. Redington	Los Angeles	Oct. 5, 1937	Resigned Jan. 27, 1939
Frank W. Clark	Los Angeles	Jan. 27, 1939	Resigned Mar. 10, 1939
Lawrence Barrett	San Francisco	Mar. 3, 1939	Resigned Jan. 11, 1943
Iener W. Nielsen	Fresno	Mar. 3, 1939	Resigned Jan. 11, 1943
Amerigo Bozzani	Los Angeles	Mar. 3, 1939	Resigned Jan. 11, 1943
Bert L. Vaughn	Jacumba	Mar. 3, 1939	Resigned Jan. 11, 1943
L. G. Hitchcock	Santa Rosa	Mar. 10, 1939	Resigned Jan. 11, 1943
Gordon H. Garland†	Sacramento	Jan. 11, 1943	Resigned Sept. 14, 1943
Mrs. Dora Shaw Heffner†	Sacramento	Jan. 11, 1943	Resigned Sept. 14, 1943
Miss Helen MacGregor†	Sacramento	Jan. 11, 1943	Resigned Sept. 14, 1943
Verne Scoggins†	Sacramento	Jan. 11, 1943	Resigned Sept. 14, 1943
William Sweigert†	Sacramento	Jan. 11, 1943	Resigned Sept. 14, 1943
C. Arnholt Smith	San Diego	Sept. 14, 1943	Resigned Jan. 1, 1949
C. H. Purcell*	Sacramento	Sept. 14, 1943	Resigned July 31, 1951
Homer P. Brown*	Placerville	Sept. 14, 1943	Resigned Oct. 26, 1951

* Deceased.

† Member of the Interim Commission.



WORLD FAMOUS MONTEREY CYPRESS along Monterey County coast

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

SIXTH ANNUAL REPORT TO THE GOVERNOR
ON THE ACTIVITIES OF THE
DIVISION OF HIGHWAYS

For the Year July 1, 1951, to June 30, 1952

HONORABLE EARL WARREN
Governor, State of California

DEAR GOVERNOR WARREN: In accordance with the provisions of Section 143 of the Streets and Highways Code, as amended, it is my pleasure to submit to you for your information the Sixth Annual Report of the Division of Highways, Department of Public Works, which presents a review of progress in state highway development under my direction during the Fiscal Year July 1, 1951, to June 30, 1952.

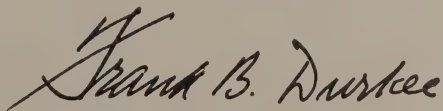
California is particularly dependent for its economic welfare upon a system of highways which is adequate for the volume of traffic within the State. Since the advent of the motor vehicle, road systems have never been completely adequate and, as you know, with the large increases in population and motor vehicle registration since the end of World War II highway deficiencies have mounted rapidly. Nevertheless, the Department of Public Works through the Division of Highways, working with the California Highway Commission, is making every effort to meet the challenge and develop the State Highway System to the highest standards possible within the extent of available revenue.

The Sixth Annual Report of the Division of Highways, as prepared and submitted to me by the State Highway Engineer, deals with the work and the problems of state highway progress during the last fiscal year and discusses in detail the more important phases of operations, administration, planning, bridges and right of way acquisition.

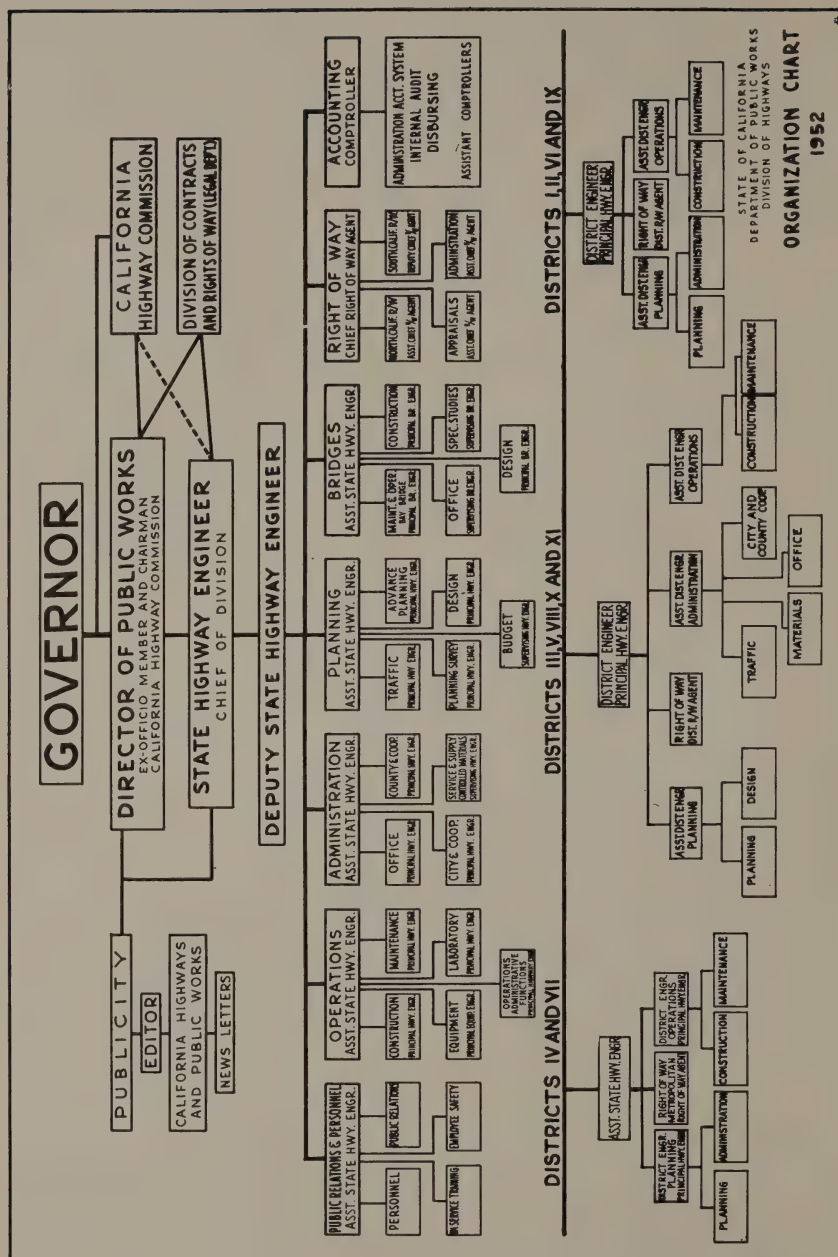
The State Highway Engineer in his personal report has briefed the progress in meeting state highway problems and the detail of the division's work may be found in the several sections given over to each of the functions listed above.

The report also includes complete financial and statistical data relating to the administration of the Division of Highways.

Respectfully,



Director of Public Works



SIXTH ANNUAL REPORT
BY THE
STATE HIGHWAY ENGINEER

July 1, 1951, to June 30, 1952

HONORABLE FRANK B. DURKEE
Director of Public Works
State of California

SIR: It is with pleasure that in conformance with statutory provisions I submit to you, for your approval and transmittal to Governor Warren, the annual report on the work of the Division of Highways during the Fiscal Year, July 1, 1951, to June 30, 1952.

As Director of the Department of Public Works and Chairman of the California Highway Commission you are fully familiar with the magnitude of the task of meeting the needs for development of a State Highway System congested with rapidly increasing traffic volumes. However, it is my sincere hope that, behind the details of facts and figures on the not inconsiderable accomplishments of the past year, you may feel the spirit of loyalty and the earnest effort which has been made by the entire staff of the Division of Highways in working together to solve the problems which confront the State and to serve the public in providing the best possible in modern highway facilities within the means provided.

Of primary importance to the development of a State Highway System adequate for the demands of the traffic it is called upon to carry, is the division's construction program. During the year progress toward such development has been materially advanced.

Between July 1, 1951, and June 30, 1952, the California Division of Highways placed under way a total of 360 contracts, the construction value of which amounted to \$107,991,400, including construction engineering but not including right of way costs. Expenditures for right of way acquisition and right of way clearance totaled \$33,128,600 for the fiscal year.

The total of \$107,991,400 in contracts awarded during the year includes \$93,386,600 for construction on state highways; \$10,402,100 for federal-aid secondary contracts for improvement to county roads located on the Federal-aid Secondary Highway System; and \$4,202,700 for contracts financed with maintenance funds and for work for other governmental agencies.

The amount of \$93,386,600, representing the construction value of contracts awarded for improvement to the State Highway System, is comprised of a total of \$72,047,700 in contracts financed from the Highway Commission's budget for the 1951-52 Fiscal Year and \$21,338,900 in contracts financed from the 1952-53 Fiscal Year budget which were awarded between April 1, and June 30, 1952, under that provision of



BURNEY FALLS NEAR Redding-Alturas Lateral, U. S. 299 in Shasta County

the Collier-Burns Highway Act which permits award of contracts on or after April 1st, prior to the beginning of the fiscal year in which such contracts are to be financed.

The total of \$107,991,400 in highway construction under administration of the department included improvement to 710.6 miles of highway and construction of 221 bridges and grade separation structures.

Under this construction program the division has advanced improvement on state highways throughout the State to the full extent of available funds emphasizing the development of freeways in urban areas and expressway construction on main arterials connecting centers of population. During the year contracts were awarded which will complete the Hollywood Freeway in Los Angeles from the Civic Center to Cahuenga Pass, where peak traffic counts reach more than 100,000 cars a day. The Santa Ana Freeway has been materially advanced in the southern portion of Los Angeles County and in Orange County; construction on the Ramona Freeway has pushed eastward to Rosemead Boulevard and beyond that to Pomona and into San Bernardino County; notable progress has been made in carrying the Harbor Freeway southward from the four-level structure through the heart of downtown Los Angeles; and construction on the Los Angeles River Freeway is reaching out well beyond the City of Long Beach nearly halfway toward a connection with the Santa Ana Freeway.

In San Diego County additional contracts have been awarded for the freeway development of the U. S. 101 through Oceanside and from National City southerly toward the Mexican border.

In the San Francisco Bay area, the Eastshore Freeway construction is being advanced south of Oakland to Hayward and work is under way at its southerly terminus at San Jose. Further development of the Bayshore Freeway is concentrated in the City of San Francisco and in San Mateo.

Expressway development of principal arterials continues on U. S. 99 in the San Joaquin Valley, on U. S. 101 in Humboldt and Marin Counties north of San Francisco and in Monterey, San Luis Obispo and Santa Barbara Counties between San Francisco and Los Angeles. Contracts for similar development on heavily traveled routes at other locations also have been placed under way.

Of the \$107,991,400 in total contracts awarded during the year, the construction value of freeway and expressway development amounted to \$71,959,800, an indication of the effort being made by the Division of Highways to meet the problem of traffic congestion on state highways in urban areas and on the principal intercity arterials.

At the present time there are 1,116 miles of divided state highways of four or more lanes completed or under construction of which 787 miles have been placed under way since World War II. These mileages include 105 miles of full freeways, without crossings or left turns at grade.

As an index to the size of the Division of Highways construction programs, the graph on page 70, showing the number and value of going contracts on the first of each month since passage of the Collier-Burns Act, is most illustrative.



DAVIS STREET INTERCHANGE on Eastshore Freeway in Alameda County.
San Leandro Creek bridge in background. Federal aid project.

While progress in highway development becomes apparent from construction operations, such development would not be possible without corresponding progress in other phases of the activities of the division.

Advance planning correlated to available revenue and traffic patterns is necessary to establishing the basis for sound development and design of improvements to the State Highway System.

Administration in preparation of specifications for construction, the advertising for bids, preparation of contracts for award and processing of progress and final pay estimates on going work must function smoothly if progress is to be made. Liaison between the State and other governmental agencies affected by proposed improvements and administration of county and city work under jurisdiction of the Division of Highways requires much time and effort by representatives of the department. Progress is not possible without extensive research into materials which go into construction, nor is it possible without the efficient administration of the internal functions of equipment management and repair and service and supply.

Next to construction and right of way acquisition, maintenance operations are probably the most important of state highway activities, for without constant and adequate care and attention the best of highway construction would deteriorate rapidly. During the past year the maintenance organization has held to the high standards of former years and in many instances maintenance crews have gone well beyond the call of duty to keep highways in service. Particularly was this evident during the unusually heavy snows in the Sierra last winter. The unselfish attention to their jobs by crew members during the long days and nights of blinding blizzards is something this department will long remember.

However, adequate maintenance of the State Highway System is threatened with lack of sufficient funds by reason of the statutory restriction which limits combined expenditures for maintenance and administration to an amount equal to the net revenue derived from one cent of the gasoline tax. Even though such revenue has risen sharply in the past several years the increase in maintenance costs and the necessary expansion of maintenance and administrative functions has been such that the statutory limitation is pinching. During World War II this limitation was temporarily raised to the revenue from $1\frac{1}{2}$ cents of the gas tax but was dropped back to one cent at the close of the war. As each year more and more vehicles operate with diesel fuel, it would now seem both advisable and necessary to include with the tax on gasoline the tax on diesel fuel which technically has not been considered a motor vehicle fuel and hence has not been included in computing the limitation.

The progress made in advancing the right of way program during the year toward the goal where acquisition is well in advance of construction operations also is noteworthy. However, it has become apparent that, particularly in connection with freeway development, funds should be provided so that rights of way may be obtained for such development in outlying urban areas before the value of the land required is increased by subdivision and building improvements, in order to save the State from paying for such increases.



AERIAL VIEW OF HOLLYWOOD FREEWAY looking easterly toward Los Angeles Civic Center. Four-level structure in foreground. Federal aid project.

During the past year an increased public interest in highways and highway problems has been evidenced by the many requests received for information about the division's activities, particularly the problem of highway finance.

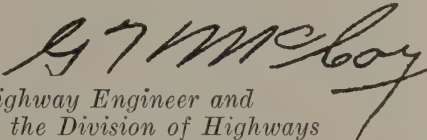
On the following pages of this report will be found detailed discussions of the phases of activity which I have mentioned as well as many others. These reports, under the headings of Operations, Administration, Planning, Bridges, Rights of Way, Public Relations, Accounting, and Legal Activities, indicate the progress made throughout the department during the year.

Highway contracts awarded for the year July 1, 1951, to June 30, 1952, segregated by types and mileage, are shown in the tabulation on page 74. The tabulation on page 77 shows the total miles in the State Highway System by types and by rural and urban highways.

Tabulation of average contract prices for major items of construction over the years appears in Appendix "D" at the end of the report. Studies in construction cost trends and their effect upon state highway construction are discussed in the Administration section under the heading of the "California Highway Construction Cost Index." The data in Appendix "D" are correlated to the prices used in preparation of the cost index.

In the several appendices following the text of the report are given important accounting and contract statistics.

Respectfully submitted,


*State Highway Engineer and
Chief of the Division of Highways*



AERIAL VIEW OF HARBOR FREEWAY looking north in Los Angeles and showing grade separation structures under construction and grading in progress. Eighth Street undercrossing in foreground. Federal aid project.

OPERATIONS

The departments of Construction, Maintenance, Equipment, Materials and Research, and Administrative Functions of Operations are administered in the California Division of Highways organization by the Assistant State Highway Engineer—Operations. Activities of these several functional subdivisions during the fiscal year from July 1, 1951, to June 30, 1952, are reported on the pages which immediately follow.

CONSTRUCTION

The past year has been a busy one for the Construction department. Disregarding bridge contracts or contracts for buildings and plants, right of way or maintenance, the number of road construction contracts under way during a great portion of the year was in the neighborhood of 200, and, in June of 1952, well over that figure.

The severe winter of 1951-52 added materially to the construction load. During the latter part of the fiscal year the Highway Commission was called on to vote \$1,266,000 for 11 major repair projects scattered throughout the State. The greater part of this work will be carried over into the 1952-53 Fiscal Year. In addition, due to the severe floods of 1950-51, a repair contract costing approximately \$1,500,000 was under way during the entire fiscal year along the Merced River between Briceburg and El Portal. Such projects as these have made relatively large and unexpected inroads on construction funds and to some degree tend to slow down the regular construction program.

Although there was plenty of competition among the contractors bidding on the state highway contracts, average construction prices reached the highest since 1924 on roadway excavation and an all-time high on plant-mixed surfacing. Prices on other contract items were also exceptionally high, portland cement concrete pavement having reached an average of \$14.25 per cubic yard in the first quarter of 1952. Similarly the over-all construction cost index was the highest it has ever been although there was a slight drop at the close of the fiscal year. These features are covered more in detail elsewhere in this report under Administration.

Construction Practice

Grading—There has been no significant change during the year with regard to generally accepted grading methods or equipment. Two projects, which, however, were somewhat different from the usual highway contracts were carried on during this period. One, the concrete lined tunnel in Gaviota Gorge, on U. S. 101 in Santa Barbara County, presented many difficult problems because of the shattered nature of the rock and the dip of the strata which necessitated extensive use of steel sets; and the other, the first unit of a fill to be built off Candlestick Point near the south city limits of San Francisco on new alignment of the Bay-shore Freeway across a portion of San Francisco Bay. This latter project

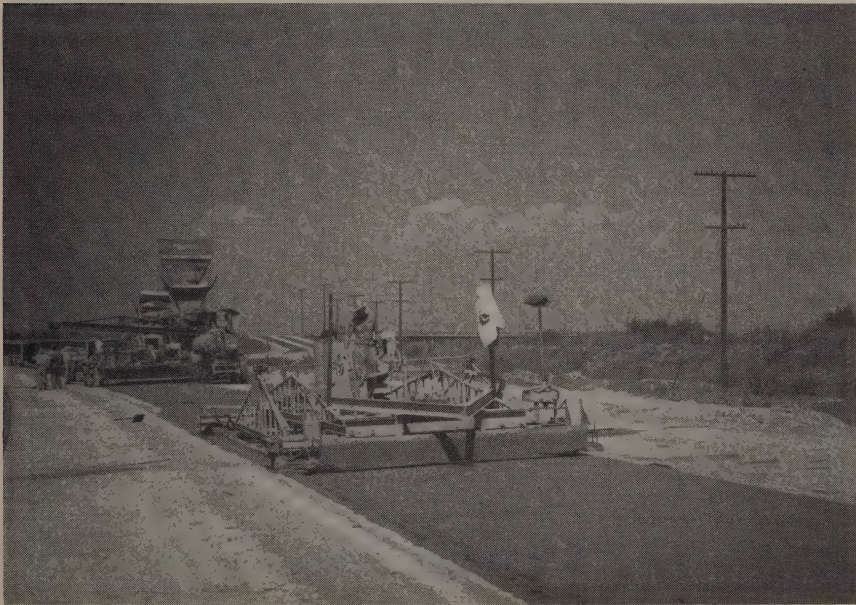


AERIAL VIEW : EXPERIMENTAL FILL across portion of San Francisco Bay on Bayshore Freeway south of Candlestick Point in San Mateo County. Federal aid project.

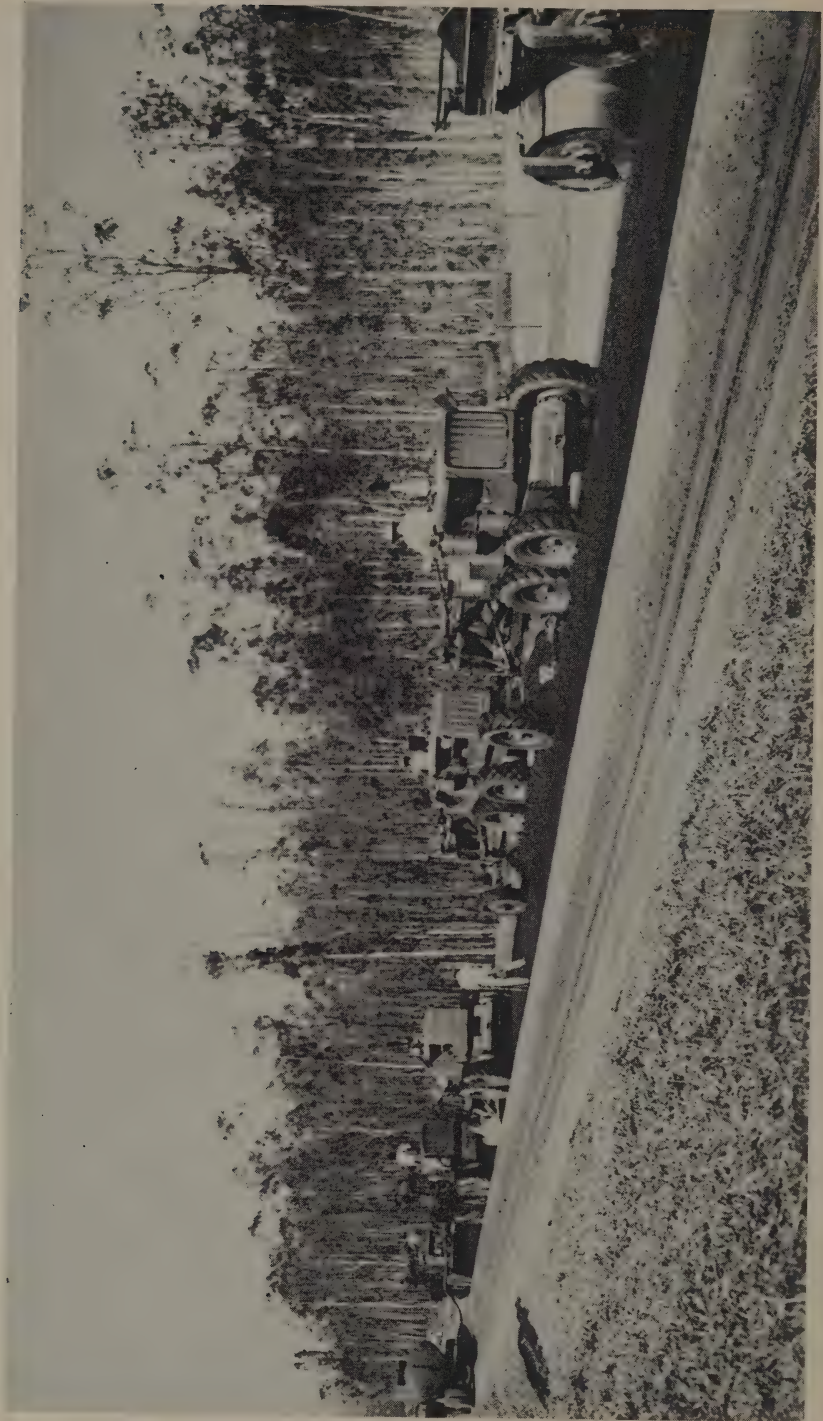
is of interest because of the great depth of mud to be displaced before the fill can be stabilized. On this first unit, mud to the depth of 35 to 40 feet is being encountered and the fill brought to rest by continuously depositing imported material until a state of equilibrium is reached.

Pavement Bases and Subgrades—No noteworthy changes have been made in pavement bases and subgrades during the fiscal year. Cement treated bases, as explained in the Fifth Annual Report, are still much in favor, and the principal thought at the present time is how to construct them quickly and cheaply. Consequently, contractors are equipping themselves with multiple units for large production, and in one case, an equipment manufacturer has introduced a pneumatic tired roller attachment to a motor grader, which seems to have a great deal of merit, not only for bases and subgrades but for laying out bituminous surfaces as well.

Bituminous Surfaces—The trend at the present time with regard to constructing bituminous surfaces is to increase plant production, some of the plants now having mixing boxes up to three tons capacity. Surface texture is receiving considerable attention; a rake attachment behind the mechanical spreader is being tried experimentally to improve skid resistance, and pneumatic rollers are being used with this same idea in mind. The current practice with regard to seal coats is to eliminate the placing of the "C" type immediately after construction and to defer placement until actual need is demonstrated.



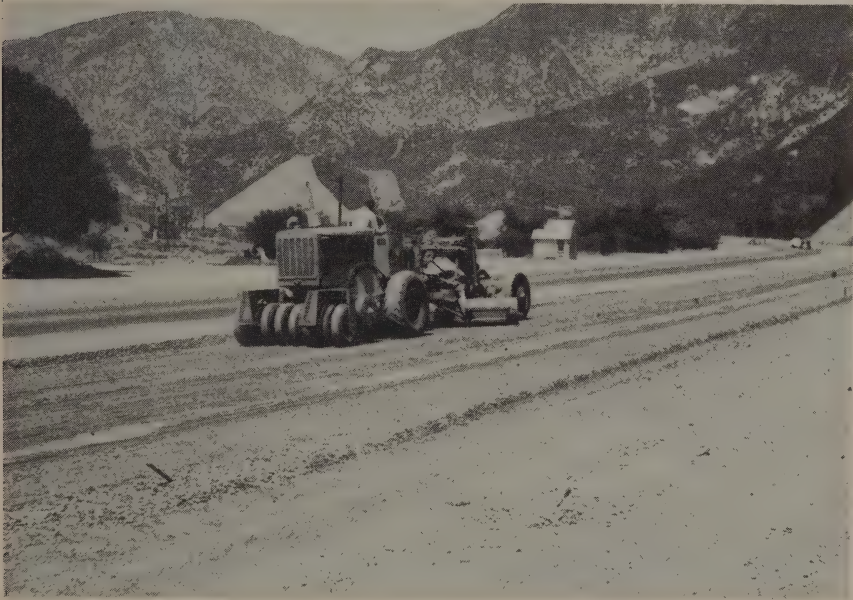
CONCRETE PAVING OPERATIONS on Los Angeles River Freeway



ROAD-MIXED CEMENT TREATED BASE on state highway in Riverside County showing mixing, spreading and compacting operations

Portland Cement Concrete Pavement—Considerable attention has been given during the past year to the development of weakened plane joints cut in the pavement at 15-foot intervals by a power driven saw within 24 hours after placing the concrete. Some of these cuts are two inches in depth and some one and one-half inches; some are skewed at various angles with a line at right angles to center-line of pavement and some are at right angles to center-line; all are one-fourth inch, or less in width. This work is still in its experimental stages, but it is hoped that a smoother riding and neater, nonspalling joint will result at no appreciable increase in cost.

Nonskid Pavements—The current tendency for motorists to file claims with the Board of Control for damages resulting from accidents attributed to the condition of the pavement has so impressed the department that a greater effort than ever is now being made during construction to insure a uniform, maximum skid-resisting surface. Accordingly, an agreement was entered into with the University of California's Institute of Transportation and Traffic Engineering to obtain measurements of the coefficient of friction of tire contact with pavement surface on various types of work. These determinations have now progressed to the point where experimental sections are being built into going contracts so that observations may be made of the comparative results of variations in the design of pavement mixtures and changes in the equipment and methods for laying pavements.



COMBINED PNEUMATIC TIRED ROLLER AND MOTOR GRADER in use on state highway through Cajon Pass in San Bernardino County, U. S. 66. Federal aid project.



CONSTRUCTION OPERATIONS ON SANTA ANA FREEWAY at Main Street crossing in City of Santa Ana. Federal aid project.

Concurrently with the construction studies, maintenance measures are being analyzed for possibility of improvements.

Preliminary Construction Review of Proposed Work—In accordance with established practice the Construction Department coordinates with other Headquarters departments in reviewing the reports, plans and specifications for proposed construction projects. This review is made of project reports, which present the general features of a proposed project for adoption; of materials reports, which submit soils and materials information affecting design; of the typical section, which fixes the type of construction to be employed including roadway dimensions; and of the preliminary reports, which cover the plans, specifications and estimates for preparation of the contract documents. These reviews assure that prevailing construction practices and new procedures are uniformly applied throughout the division.

Honor Camp Projects

The same three construction camps with a combined quota of over 200 inmates as described in the Fifth Annual Report, continued operations throughout this fiscal year. These three camps are located in areas off main routes as follows: Camp 36 in Trinity County at Burnt Ranch on the lateral between Redding and Arcata; Camp 37 at Cedar Springs on the Angeles Crest Highway in Los Angeles County; and Camp 39 near Davis Creek in Modoc County on the Alturas-Lakeview highway.



GRADE SEPARATION STRUCTURE at junction of State Highway Route 207 (under) and State Highway Route 43 (over) in San Bernardino County. Federal aid secondary project.



SNOW REMOVAL OPERATIONS on U. S. 40 near Donner Summit,
showing depth of pack.

During the fiscal year at Camp 36 the piers and walls were completed at the French Creek Bridge and considerable bank protection on the Trinity River was constructed. All this work was of rubble masonry. Rough grading was continued in the vicinity of Del Loma and another three miles were treated with light asphalt near Hardin Flat. At the close of the fiscal year the work at Camp 37 had been extended approximately 10.5 miles beyond Cedar Springs, the road being about 95 percent complete as far as Dawson Saddle, 7.5 miles above camp. The two short tunnels near Cedar Springs are almost completed. At Camp 39 rough grading was continued from Davis Creek to the junction with the Alturas-Cedarville highway. In addition to the road work the personnel in all the camps were called on for fire fighting operations at various times.

The following tabulations show camp locations and inmate population as of June 30, 1952.

<i>Camp No.</i>	<i>Road</i>	<i>Camp location</i>	<i>Inmate quota</i>	<i>Number inmates 6-30-52</i>
36	I-Tri-20-C, D	Burnt Ranch -----	60	60
37	VII-L. A-61-C, D	Cedar Springs -----	110	105
39	II-Mod-73-A, B	Sugar Hill -----	50	53
Totals -----			220	218

MAINTENANCE

During the past 12 months the maintenance organization experienced one of the most difficult years in the history of California state highways. This was due in some part to the increase in traffic demands as well as continued expansion of certain phases of the work, such as maintenance of additional mileage of completed multilane and freeway construction, highway lighting, and traffic signals. The main stress occurred, however, in meeting the many emergencies occasioned by the severe and protracted winter season.

The increase in traffic demand on the state highways is illustrated by the following comparison of traffic volumes using 1948 as a base:

<i>Year</i>	<i>Annual vehicle miles in thousands</i>	<i>Average daily number of vehicles per mile</i>	<i>Percent</i>
1948 -----	11,235,020	2,438	100.0
1949 -----	12,000,650	2,609	107.0
1950 -----	12,784,839	2,786	114.2
1951 -----	14,016,024	3,063	125.6

About 16 percent of the traffic consists of commercial type vehicles.

Reports of traffic counts during 1952 show that the increase is continuing. It seems safe to say that the daily traffic volumes throughout the State Highway System have increased over 30 percent as of June, 1952, when compared to the 1948 volumes.

The field force authorized on maintenance work in 1948 was 2,336 men. By June, 1952, this force had increased to a total of 2,481 men. The maintenance forces use in their work automotive and construction types of equipment with an inventory value of around \$12,000,000. In addition, privately owned equipment is rented in a total amount of from \$800,000



TRAFFIC CONGESTION ON U. S. 40 in Contra Costa County north of San Pablo

to \$1,000,000 annually for special work or for use during emergencies. This figure includes wages of operators and cost of fuel and supplies as it is usually rented fully operated.

The major increase in force has been due to the development of areas along freeways, especially in the San Francisco and Los Angeles areas, and the increase in signal and highway lighting in such areas. Few men have been added to the regular maintenance patrol crews. A senior highway engineer was added to the Headquarters staff to supervise the maintenance of all electrical type signals, lights, etc., on a state-wide basis.

The total expenditures for the maintenance work for the year exceed \$24,000,000. In addition, the maintenance forces carried out improvement work representing an allocation of \$1,813,253 during the last fiscal year which was \$700,000 less than the normal.

Maintenance Stations

Further development of an adequate system of maintenance stations has been seriously handicapped by lack of funds. The expansion of other phases of highway work has required allocation of funds to the construction of district offices, laboratory, shop and service and supply facilities. However, the program as planned for the year has been authorized. The major work completed included improvement at Central Maintenance Station in Los Angeles and at Weed in Shasta County. Preliminary work was under way by June 30th on plans for a new development at Truckee in Nevada County, at Manchester in Mendocino County, and at Santa Barbara. A site has been secured at Antioch in Contra Costa County and its improvement initiated. A site with usable improvements was acquired during the year at Pine Grove in Amador County.

The allocation of funds for various phases of the buildings and plants work was as follows:

Purchase and improvement of maintenance stations	\$184,406
Maintenance and repair	142,477
Radio installation	352,900
Total	\$679,783

The large portion of the program expended for the radio installation has somewhat handicapped completion of needed station facilities, but the extensive use made of the radio during the winter emergencies has well justified the wisdom of the expenditure.

Snow Removal and Sanding Slippery Pavements

The extraordinary snowfall in the northern section of the State during the 1951-52 winter season brought to the attention of the public the importance of the snow removal phase of maintenance work. U. S. 40 was closed at Donner Summit for 28 days. The all-time record at the U. S. Weather Bureau Station at Soda Springs for seasonal snowfall was broken with a total fall of 793 inches. The previous record, as reported for 1880, was 783 inches. The depth of pack was also the greatest of record since 1880 with 314 inches on March 20, 1952. Snow depths on other



TWO SNOGOS "BLOWING" SNOW on U. S. 40 at Blue Canyon Airport
in Placer County



"DIGGING OUT" "CITY OF SAN FRANCISCO" stalled by snow in January, 1952, near
Yuba Gap on U. S. 40 in Placer County

trans-Sierra routes, such as the Echo Summit Route, the Feather River Route and the Red Bluff-Susanville Lateral, were proportionately high.

U. S. 40 was first closed on Donner Grade for a few hours on October 24, 1951. Only 10 inches of snow fell during this first unexpected storm, but, as trucks were not equipped with chains, a traffic tie-up resulted. The Sonora Pass, Tioga Pass, and Ebbetts Pass Routes were closed for the winter by the storm of that date. The Carson Pass Route was closed the following day. That portion of State Sign Route 89 through Lassen Park was closed officially on October 26th.

The next major storm caused the seasonal closing of the Big Oak Flat connection to Tioga Pass, Sign Route 120, on November 19. The Fish Hatchery to Bliss State Park portion of Sign Route 89 closed on November 20th, and the Luther Pass section of the same route was barred to traffic on the following day.

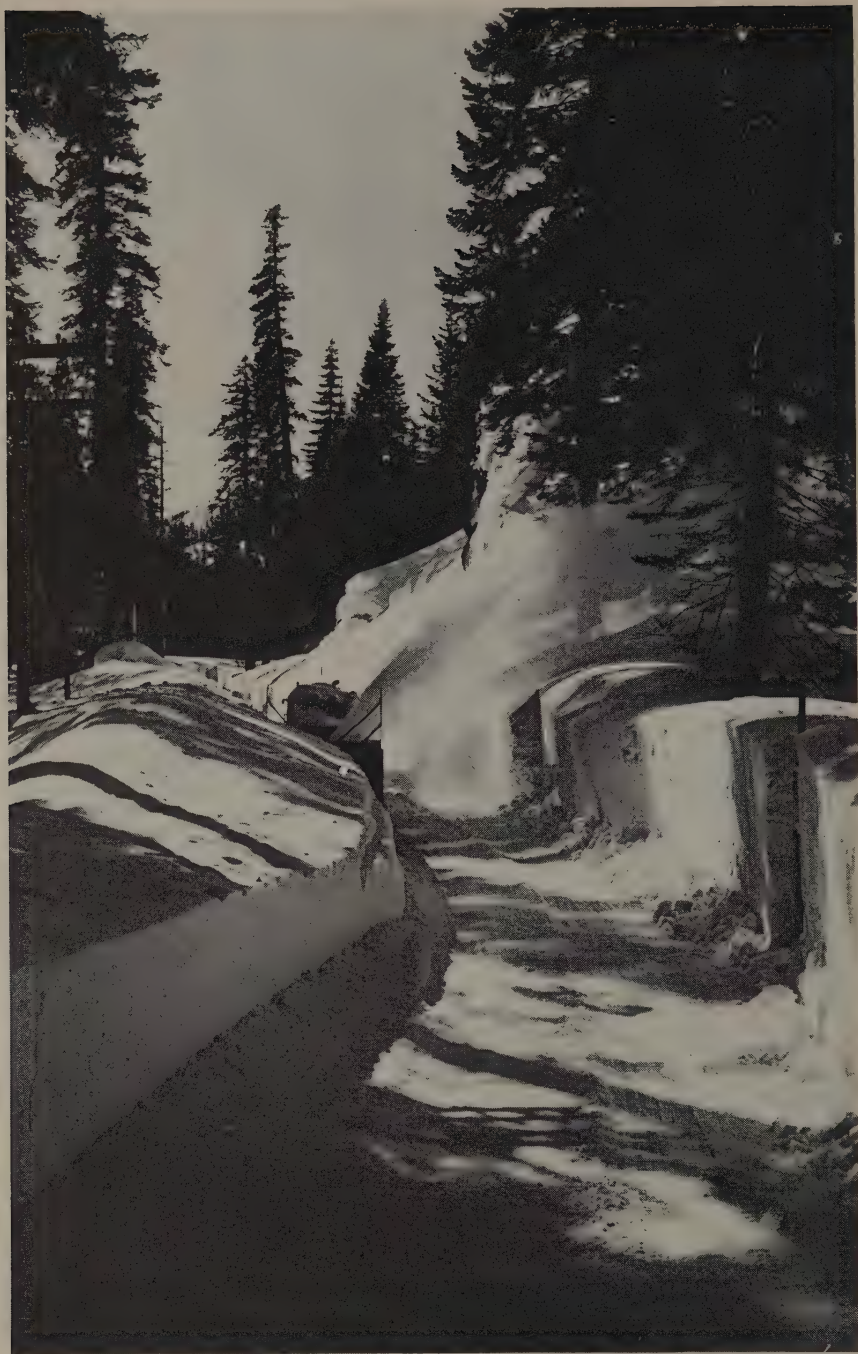
Weather conditions in the central Sierra Range were severe during December. Heavy snowfall, combined with winds of high velocity, created blizzard conditions which necessitated the closing of main highways for periods of from several hours to several days. During the latter part of December, considerable difficulty was encountered in keeping the Meyers Grade portion of U. S. 50 open as snow slides of avalanche proportions swept across the highway with little or no warning. One Maintenance Department employee lost his life in such an avalanche on the Meyers Grade. A second snow slide farther down the grade carried an unoccupied heavy snow truck and plow some 300 feet down the mountain slope.

On December 31, 1951, the reports showed a snow depth of 116 inches at the Soda Springs measuring point on U. S. 40 and 103 inches at Echo Summit on U. S. 50. There was also a depth of 46 inches at Crestview on U. S. 395 in Mono County on that date. The section of Sign Route 89 between Truckee and Calpine was also closed by that time.

Elsewhere in the northern part of the State, heavy rain caused an increasing number of temporary road closures during the latter part of December and the first part of January. State Sign Route 1 was closed north of Albion along the coast by a washout and Sign Route 9, north of Santa Cruz, by an earth slide. On January 3, 1952, the section of Sign Route 24 between Sacramento and Woodland was closed at Fremont Weir due to water over the road.

There was no indication that the storm which began on the 10th of January was anything unusual. The snow depth at Soda Springs was recorded at 105 inches, and the gauge at Echo Summit registered 80 inches of pack. Maintenance forces were going about their regular business of maintaining an open road although U. S. 50 had been closed between Echo Summit and the foot of Meyers Grade as a precautionary measure on that date.

By January 11th, the storm had increased to blizzard proportions. U. S. 40 was closed between Baxters and Donner Lake Gate on that date, and was not again open to through traffic until February 8th. Echo Summit remained closed to through traffic until February 9th. Closure



SNOW REMOVAL OPERATIONS on state highway in El Dorado County

of the two main routes east of Sacramento forced traffic to cross the mountains by way of Sign Route 24, the Feather River Route, and Sign Route 36, the Susanville lateral. These routes were in turn closed on January 13th. The Red Bluff-Susanville section of Sign Route 36 and Susanville-Reno portion of U. S. 395 were reopened on January 16th, but a second blizzard closed the Susanville-Reno Road between January 20th and 23d. Heavy snowfall and extreme drifting were experienced on the major portion of the Feather River Route, east of Oroville, although this road traverses a region of normally light snowfall. Portions of the route were open at intervals, but the entire route was not cleared until January 29th.

U. S. 299, Redding to Alturas, was closed at intervals at Big Valley Mountain and Adin Mountain. Heavy snowfall occurred on the section of U. S. 395 north of Secret Valley and at Sage Hen Summit. The Mono County portion of U. S. 395 along the east fringe of the Sierra Nevadas was closed for six days starting January 12th and again on January 21st for a seven-day period, primarily due to the high winds.

Sign Route 20, east of Nevada City, required much attention and the easterly portion was closed for a considerable period. The Yuba Pass portion of State Sign Route 49 by way of Downieville and Sierra City suffered severely from slides and heavy snowfall, the pass remaining closed until March 1st.

For several days following the start of the mid-January storm, maintenance forces on the major routes across the Sierra could make no progress in the face of the heavy snowfall and continuous drifting. The wind attained a velocity of up to 100 miles per hour at the weather bureau station at Donner Summit. Equipment became stalled or broken down at an unprecedented rate. Shop mechanics, maintenance foremen, and others often worked many hours in excess of the 12-hour shift normally assigned to snow removal crews during ordinary storms.

As the blizzard subsided, the first efforts were directed to emergency relief work. The part played by the highway forces in the rescue of the passengers stranded in the railroad streamliner near Yuba Gap was described in detail in newspapers and elsewhere. Efforts to bring relief to local residents and snow-blocked communities in the mountain area were given precedence over the returning of the highways to full service.

In anticipation of difficulty in securing delivery of heavy equipment, arrangements had been made in the previous July to secure a reserve stock of the auger type rotary snow plows for replacement programs. At the time of the start of the big storm, six units were waiting assembly at Sacramento and an equal number at the North Hollywood Shop in Southern California. Shop forces worked on a 16- to 20-hour shift basis assembling this equipment. The first unit at Sacramento was ready about 2 a.m., January 14th and was started out immediately. The last unit was ready January 18th. Some difficulty developed in this regard as there was no opportunity for a tune-up period with this equipment and delays occurred while the "bugs" were being worked out.

During February and the first part of March, the weather was especially favorable, and the snow pack settled and consolidated. There was concern that the normal seasonal rains would cause great floods due



NIGHT VIEW OF SNOW REMOVAL on U. S. 40 at Blue Canyon Airport
in Placer County



"OVER CAB" TRUCK LOADER for loading sweepings from streets and freeways.
Made in Headquarters Shop.

to runoff from the mountain areas. A succession of warm days and cold nights insured gradual melting of the snow, and only a small portion of the San Joaquin Valley was affected by floods.

A more complete list of the road closures and similar detail is to be found in monthly reports of the Maintenance Department.

The field cost of snow removal and pavement sanding as allocated for the 1951-52 season was as follows:

Snow removal	\$1,916,217
Sanding pavement	261,079
Total	\$2,177,296

This compares with a cost for the previous season (1950-51) of about \$868,000 on a similar basis. Nearly \$200,000 of this latter amount was used in sanding slippery pavements.

The radio facilities which had been installed during the last three years played an important part in the conduct of the work as well as keeping the press and public informed.

It was anticipated that the opening of highways which are normally closed during the winter at the higher elevations would be unduly delayed due to the depth of packed snow. These sections were opened with little more than the usual difficulty. The opening dates were as follows:

Route number	Name	Elevation	Opening date	
			1950-51	1951-52
SSR 89	Lassen Volcanic National Park			
	(within park)	8,500	6-15-51	6-28-52
	Fish Hatchery to Bliss State Park	6,300	4-13-51	5-29-52
	Woodfords to Jct. U. S. 50	7,700	4-23-51	5-29-52
SSR 88	Carson Pass	8,573	5-25-51	6-27-52
SSR 4	Ebbets Pass	8,800	5-25-51	6-27-52
SSR 108	Sonora Pass	9,624	5-25-51	6-26-52
SSR 120	Tioga Pass	9,941	5-25-51	6-21-52

Major Slides and Storm Damage

There was considerable damage to highways and various road closures throughout the State due to earth slides and storm damage. The losses and delays to traffic were not as great as were to be expected during the season in view of the exceptionally heavy rainfall. The very considerable effort expended in the planning and construction stages paid off in minimizing damage on most of the newly constructed sections of highways. The total allocations for slide removal and storm damage repair were about \$3,142,000.

A few locations where extensive work was required due to slides or washouts were as follows:

Route 1	At Shively Bluffs south of Pepperwood in Humboldt County	\$32,000
Route 5	Altamont Pass in Alameda County	50,000
Route 56	Thornton Bluffs in San Mateo County	88,000
Route 68	Bayshore Freeway section in San Francisco	73,000
Route 75	The Orinda slide in Contra Costa County	63,000
Route 60	Coast Highway in Ventura County	62,000
Route 207	City Creek in San Bernardino County	84,000

While the work at the locations listed was more concentrated, the extent of the damage is better indicated by the over-all total.

Repair of Traveled Way and Shoulders

The continual increase in traffic volumes and the lag in development of adequate highways require first-class upkeep of the existing traveled way and shoulders. The organization is presently using over 46 percent of the total fund provided each year for this phase of maintenance. The work is a year-round program. In order to insure best results, however, it is essential that the major repairs be made during the summer season when the materials and road surfaces are dry and there is sufficient warmth to compact and cure the asphaltic materials under traffic. The program is further handicapped by the fact that funds for the work in a given fiscal year do not become available until July 1st. This limitation results in loss of from four to six weeks of favorable weather each season.

The major repair portion of the program is based on a careful review of the needs in each district after the winter season. Experience and judgment are essential elements in the selection of projects within the funds available. The program for the 1951 working season was estimated to cost \$3,114,256 at the beginning of the year. This program was detailed as follows:

<i>Work orders (urban and rural)</i>	<i>Description of work</i>	<i>Miles</i>	
		<i>Traveled way</i>	<i>Shoulders</i>
52-K1	Reprocessing treatment -----	177.20	176.64
52-K2	Penetration treatment -----	154.74	15.52
52-K3	Bituminous blankets -----	328.77	96.19
52-K4	Seal coats -----	1,204.60	469.49
52-K5	Base restoration -----	34.09	
52-K6	Shoulder restoration -----		10.52
52-K7	Asphalt subsealing of concrete pavements ----	21.12	
52-K20	Surface planing -----	5.87	
52-L1	Reprocessing and surface blankets by city forces -----	9.48	
	Totals -----	1,935.87	768.36

The total traveled way mileage of about 1,936 miles represents about 14 percent of the constructed State Highway System.

The total of work authorizations issued during the 1951-52 Fiscal Year amounted to \$4,491,392. This represents an increase of \$1,377,136 over the amount programmed. A portion of this increase has been due to surface failures as a result of the extreme conditions which developed during the past winter. A portion is for planned work and from funds reserved to start the 1952 program. The short season most favorable for bituminous work, extending from about May 15th to September 15th in most areas, makes it necessary to work prior to July 1st when the fiscal year starts and funds for the succeeding year are available. The best results are insured, therefore, under this system of planning.

Asphalt Subsealing and Joint Sealing Concrete Pavement

The program of asphalt subsealing and filling joints in concrete pavement was continued during the year. Subsealing was carried out by maintenance forces using both maintenance and construction funds allocated as shown below. All old concrete pavements which are to receive

a contact blanket are reviewed with care and arrangements are made to subseal them before the blanket is placed whenever pumping or similar evidence of failure is noted.

<i>District</i>	<i>Maintenance funds</i>	<i>Construction funds</i>	<i>Total</i>
III -----	\$40,311		\$40,311
IV -----	55,902	\$35,540	91,442
V -----	42,733		42,733
VI -----		8,650	8,650
VII -----	41,540	35,450	76,990
X -----	22,517		22,517
XI -----	3,068	8,000	11,068
Totals -----	\$206,071	\$87,640	\$293,711

The total cost of this type of work for the last seven years approximates \$1,470,000.

Use of cold-poured material, asphalt latex emulsion, to fill joints in portland cement concrete pavement was continued in two districts. A contract covering 34.0 miles was completed at a cost of \$44,000, which is about \$1,294 per mile or 11 cents per linear foot of joint.

Bridge Repair and Maintenance

The bridge repair and maintenance work, including repairing of structures, was carried on as in the past. The field costs for this work during the year were as follows:

State forces -----	\$220,707
Contracts -----	337,032
Total -----	\$557,739

Maintenance of State Highways in Cities

The major problems connected with the handling of maintenance in cities by city forces have been worked out in previous years. It is believed that the work has been conducted on a mutually satisfactory basis. Allocations for work by state forces are included in both general and specific allotments.

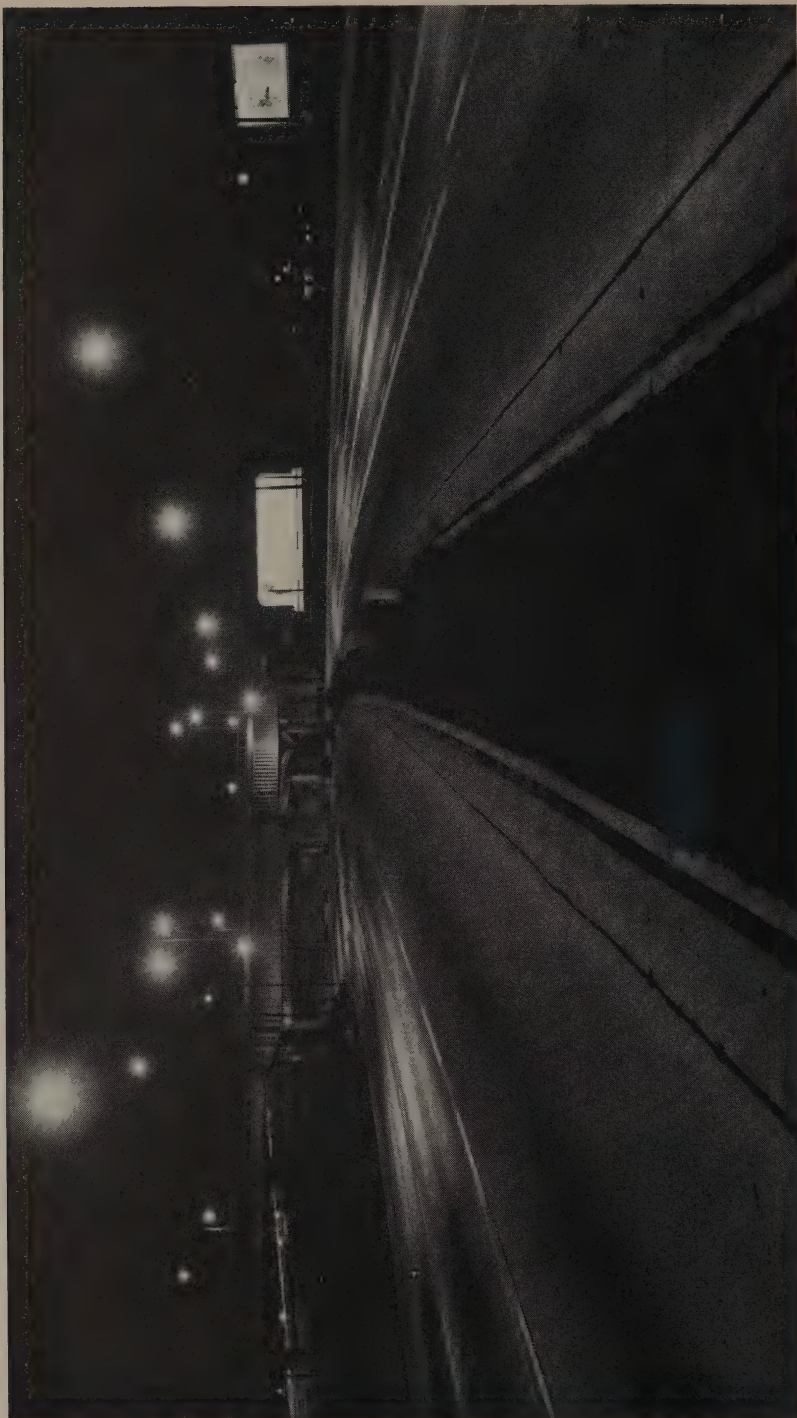
The total authorizations for maintenance of some 1,163 miles in cities during the year was \$3,770,233 divided between state and city forces as follows:

State forces -----	\$2,171,186
City forces -----	1,599,047
Total -----	\$3,770,233

Trees, Landscaping and Roadside Vegetation Control

Roadside maintenance practices have not changed in the past year over the previous year insofar as care of trees, shrubs and vegetation growth is concerned.

Fire hazard control has been confined to the use of motor graders or discs and burning with the mechanical burner or through soil sterilization.



NIGHT SCENE ON EASTSHORE FREEWAY at 23d Avenue Overcrossing in Oakland

Noxious weed control is carried out by maintenance forces or through arrangement with various county agricultural commissioners. In the latter cases, the county crews are under service agreement, and the expense is borne from funds provided for highway maintenance.

The economical maintenance of freeway areas has been improved strongly by the use of machinery and the intelligent use of fertilizers.

Tree crews have maintained planted and native trees along highways as well. These crews have also carried on roadside brushing work along many miles of the system by both hand and machinery methods.

Authorizations for various roadside functions have been as follows for the fiscal year:

Fire hazard control	\$161,220
Noxious weed control	84,748
Landscape maintenance	500,000
Trees	272,843
Erosion control	6,500

Warning and Directional Signs

A total amount of \$234,879 was allocated to maintain and install signs on the State Highway System during the fiscal year. A total of 21,894 new signs was purchased during the year. This number includes signs secured for installation on new construction projects which cost approximately \$63,600. These latter signs were also installed by the maintenance forces. This phase of the work represented an expenditure of about \$145,000 from construction funds.

During the year, there was a change in policy relating to erection and maintenance of signs in the cities. The California State Automobile Association and the Automobile Club of Southern California had formerly participated in the maintenance or erection of warning or regulatory signs on the state highway routes within cities. This work has now been taken over by the Division of Highways and is supervised and carried out by the maintenance organization.

Traffic Stripes and Paving Markings

The fund allotted for painting traffic stripes and paving markings amounted to \$705,448 during the fiscal year. This amount was used to paint traffic lines on approximately 11,500 miles of state highways.

Specifications were developed during the year for a new type of traffic line paint. One of the ingredients is "parlon" the trade name for chlorinated natural rubber. The results obtained from this new material are very promising, and it is planned to continue to specify this material in traffic paint. The heavy rains and snows of last winter played havoc with all traffic lines due to the presence of mud, dirt and other foreign matter carried onto the state highways during the wet weather. This foreign matter acts as an abrasive causing rapid wear on the traffic line. The cost of insuring a satisfactory stripe is greatly increased thereby. There is perhaps no single service which gives traffic such assurance as well-maintained markings and the expense is well justified.

Traffic Signals

The several districts were allotted a total of approximately \$524,300 for the maintenance of traffic signals and highway lighting units. There

have been about 100 intersections on the highway system where traffic signals were installed during the year. The largest number of these are of the traffic actuated type.

Some 1,300 additional lighting units have been installed. Most of these are erected on the new sections of freeways. The tendency is to install these lighting units higher above the pavement than in the past. Changes in construction standards represent an increase in first cost as well as creating problems in maintenance. Equipment suitable for maintaining lights 30 feet above the pavement is not adequate when the lights are raised to 35 feet. The continuing increase in the maintenance budget requirements due to development of traffic control facilities is a matter of considerable concern to administration authorities responsible for this phase of the work. Comparison of costs for four periods, covering work by state forces or under service agreements with counties or utility companies, are as follows:

<i>Fiscal Year</i>	<i>Direct maintenance cost</i>
1948-49 -----	\$239,076
1949-50 -----	343,329
1950-51 -----	404,962
1951-52 -----	524,300

Expenditures for work performed by cities on signals or lights are not included in the above amounts. Such expenditures are included in the allocations for all types of maintenance work. The cities maintain approximately 47 percent of the total traffic signals and 25 percent of the total lighting units on state highways. It is estimated that this portion of signal and lighting expense approximated \$395,000 during the fiscal year. The total cost of \$919,300 of this phase of maintenance work represents about 3.8 percent of the cost of all maintenance work for the fiscal year.

Radio Communication

The basic installation of the new high-frequency FM radio system has been completed in all 11 highway districts as well as the San Francisco-Oakland Bay Bridge. There are now in operation 75 base stations, 27 control stations, 28 fixed relay stations and 550 mobile units.

The system represents an expenditure of approximately \$850,000.

The value of this new communication system was dramatically demonstrated during the winter of 1951-52 when unprecedented storms blanketed the State. The direction of men and equipment and the accurate reporting of up-to-date road information via radio played an important role both in keeping highway traffic moving and in preventing unnecessary travel in hazardous areas.

While radio communication is dramatically spotlighted during storm and emergency periods, its real value lies in the normal everyday use of this medium, which is now an integrated part of highway work. Such common use is constantly made of the radio system as the ordering of materials and equipment, redirection of field forces to new projects, coordinated use of specialized equipment, reporting equipment breakdown, and many other such items. The investment in radio communication is rapidly repaying itself with interest.

Outdoor Advertising

The administration of the Outdoor Advertising Act has been carried out on the same basis as in the past. The comparative records for three years are as follows:

Number of operators licensed during the last three fiscal years were as follows:

1949-50	789
1950-51	750
1951-52	800

Number of permits issued and gross receipts during the same periods were:

<i>Year</i>	<i>Signs</i>	<i>Structures</i>	<i>Gross Receipts</i>
1949-50	603	29,817	\$64,588.27
1950-51	497	30,387	61,676.72
1951-52	537	32,509	70,438.66

Permits

There has been little change in the policies relating to issuance of permits for movement of oversize or overweight loads or for encroachments within the highway right of way.

The extensive movements of military equipment and of construction equipment required in building up the military establishments in California has made it necessary to develop close cooperation with transportation officers in both the Army and Navy.

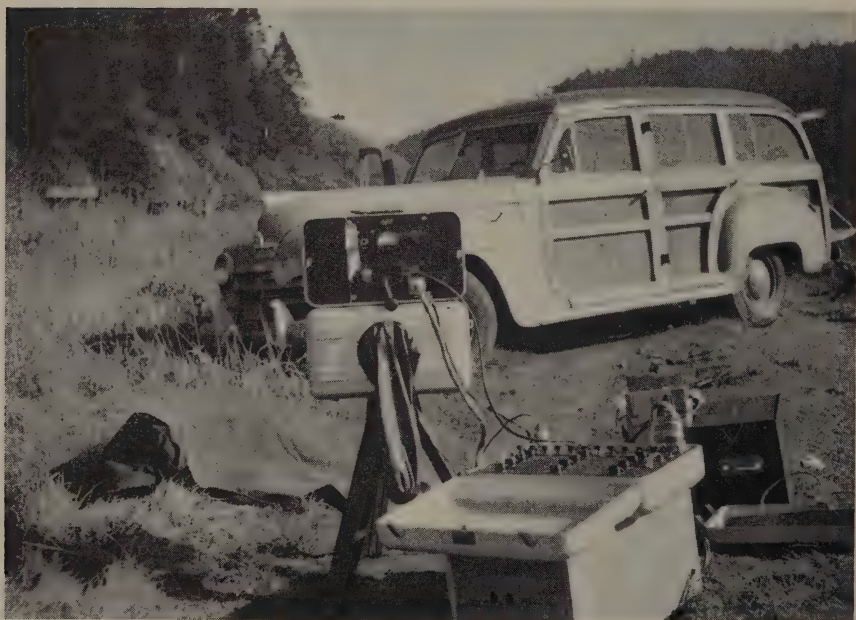
In several districts, men have been assigned to the offices of maintenance superintendents to investigate applications and on the inspection of work performed on the right of way under permit. The cost of issuance and inspection of permit work increases year by year.

The number of permits issued during 1951-52, as well as for the two previous years, was as follows:

<i>Type</i>	<i>Number of permits</i>		
	<i>1949-50</i>	<i>1950-51</i>	<i>1951-52</i>
Transportation permits	32,239	41,285	52,533
Encroachment permits	14,826	13,917	13,953
Totals	47,065	55,202	66,486



PORTABLE FOUNDATION EXPLORATION DRILL on pontoon float



GEOPHYSICAL EQUIPMENT used in subsurface explorations for
fills, cuts, quarries and foundations

MATERIALS AND RESEARCH

The Materials and Research Department's headquarters on Serra Way in Sacramento have become increasingly cramped for working space. Plans are being prepared for a new building to accommodate the increasing work of the department. During the past year a number of pieces of testing equipment were obtained and put in use. In summary, progress continues, both in the research and development field and in the materials control field.

There have been major changes in the personnel at the department and the work is now divided into five sections, namely: Foundation, Pavement, Structural Materials, Technical, and Administration.

Foundation Section

The work of the Foundation Section has included exploratory work, corrective treatment, and analyses of soil conditions to determine stability of highway cuts and fill foundations in addition to the routine work.

The exploratory work is primarily to secure data for design purposes. Most of these data are secured from vertical borings and from tests and analyses made on samples from these borings. During the year more than 230 vertical borings were drilled to a total of 8,525 linear feet. Valuable information is also obtained by observations and measurements of full-size structures. For example, a test section of open water fill at Candlestick Cove in San Francisco Bay is providing extensive settlement and pore pressure data and other information that will be used in the design of major portions of this project.

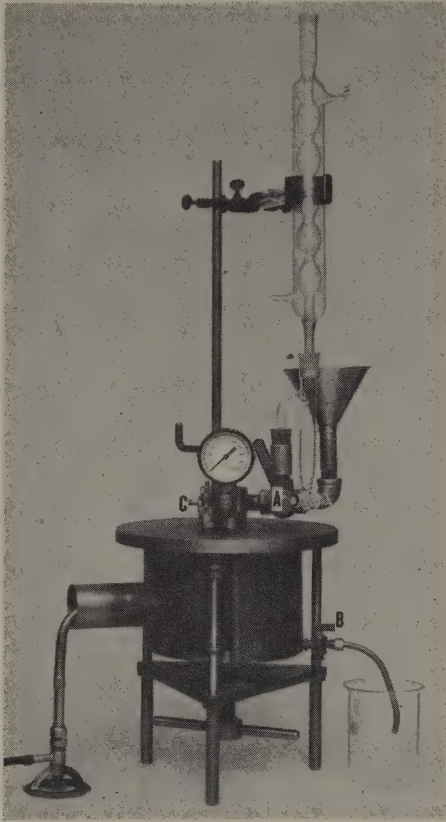
The installation of horizontal drains for stabilization of highway landslides and slipouts has continued to be an important phase of the work of the Foundation Section. During the year more than 12,000 linear feet of perforated drain pipe were installed. The largest single project of its kind that has been undertaken to date by the Division of Highways was at the Orinda Slide on Route 75 in Contra Costa County (see Fifth Annual Report). One hundred and six drains were placed at this location for a total of 12,160 linear feet of drain.

Engineering geologic investigations were made in conjunction with studies of foundations, and quarry and aggregate sites. A special study was made of the effect of physical tests on a riprap material. The compilation of an aggregate and materials source index was continued, with special attention being given a newly discovered reactive aggregate area. Newly acquired geophysical equipment was found to be a very useful tool in subsurface exploration work of the section.

A cooperative study of coarse aggregate soundness test methods was begun, in conjunction with the AASHTO Committee on Concrete Aggregates. A special study of laboratory methods for establishing a standard procedure for performing the wash analysis test is now under way.

Pavement Section

The Pavement Section tests all materials (except portland cement concrete) used in the construction of the top 30 inches of the road bed. This testing, requiring a total of 32 different test methods, is performed on all types and grades of asphalts, bituminous mixtures, treated and



FIELD EXTRACTOR developed by
Pavement Section of Materials and
Research Laboratory

untreated bases, and subbases. The section in the past year performed a total of 88,000 individual tests on 9,700 samples of highway materials.

Research and investigational projects are continually active, both in the laboratory and on actual road test sections. Recent and current research or investigational projects include cooperation with the University of California in performing skid resistance tests on a wide variety of pavement surfaces, and cooperation with the Bridge Department in establishing two test sections on steel deck bridges on which asphalt rubber latex emulsion and a special rubber and cement combination were used as binders for holding nonskid surface treatments.

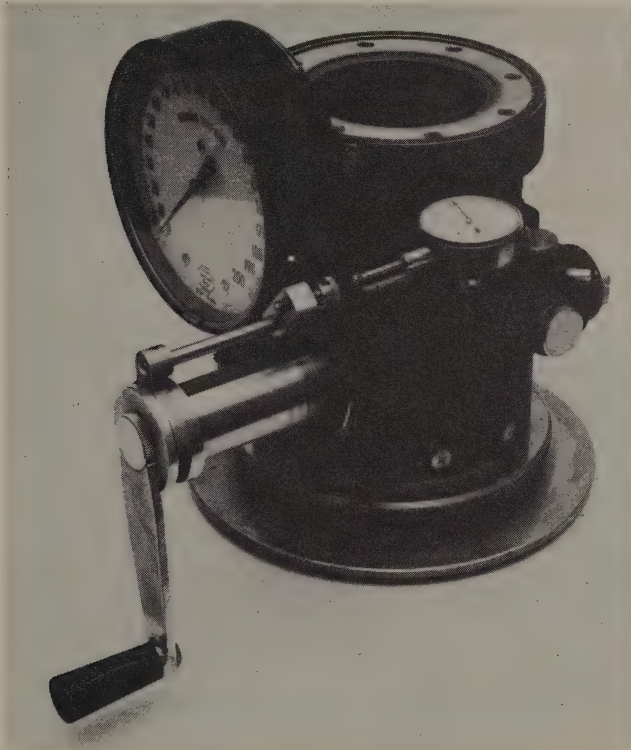
In the past year, three new test methods have been adopted as Standard Specification tests. The new tests are: (1) the Resistance Value (R-value) Test which is at present the California criterion for structural design of highways; (2) the Sand Equivalent Test which detects harmful clays; and (3) the Moisture Vapor Susceptibility Test used in evaluating bituminous mixtures.

This section is cooperating in testing materials for use in the WASHO test road located in southern Idaho, and is testing bituminous mixtures in cooperation with the Triaxial Institute. Studies are also under way to develop an instrument for measuring the resilience of roadbeds. A great deal of special equipment has been installed and studies are being conducted in development of test methods for determining the durability and curing properties of asphaltic products.

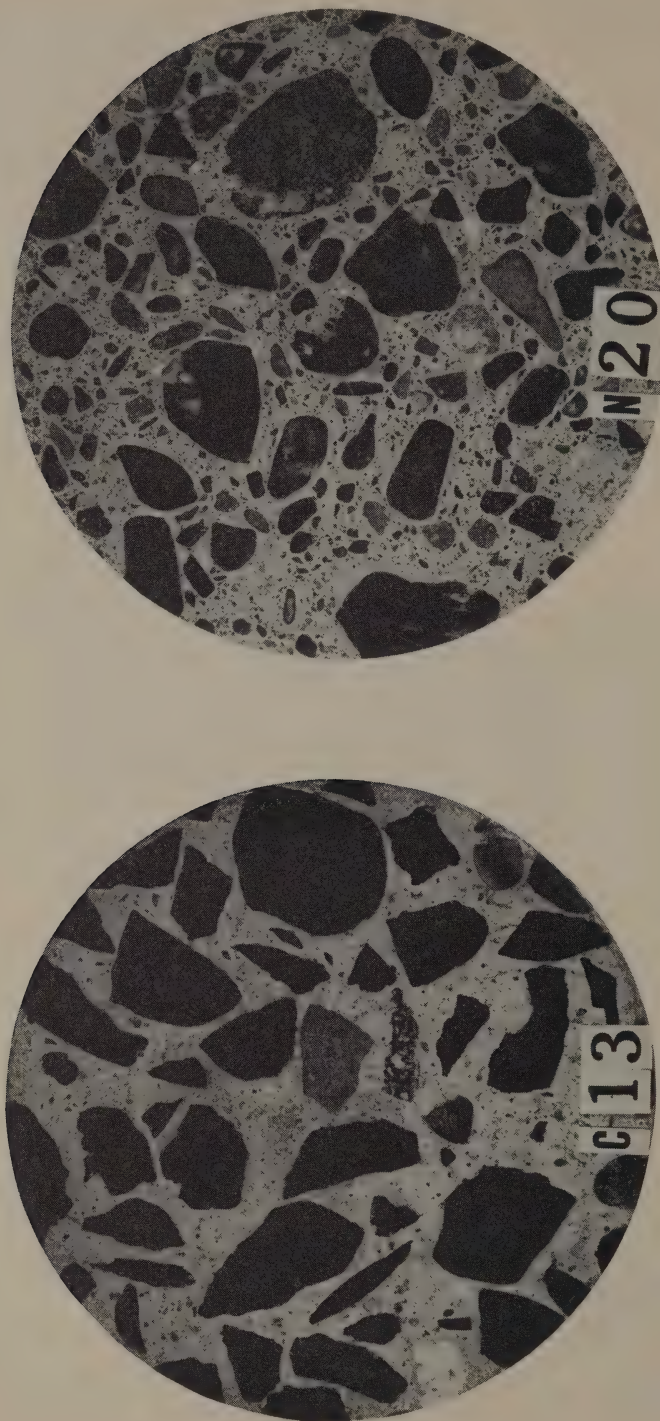
In the past year this section has carried on an extensive cooperative testing program with the highway district laboratories in correlating and standardizing test methods and equipment.

Technical Section

Chemical Laboratory—During the past year the Chemical Laboratory unit of the Technical Section has made some 20,000 tests on about 25 different kinds of materials. Corrugated metal pipe continued to be an important item, with tests made on samples representing nearly 9,400 tons of pipe. The increased load is due in part to the expanding work of the Division of Highways and in part to increased demands from the



STABILOMETER used in Material and Research Laboratory for standard R-value test for establishing flexible pavement design



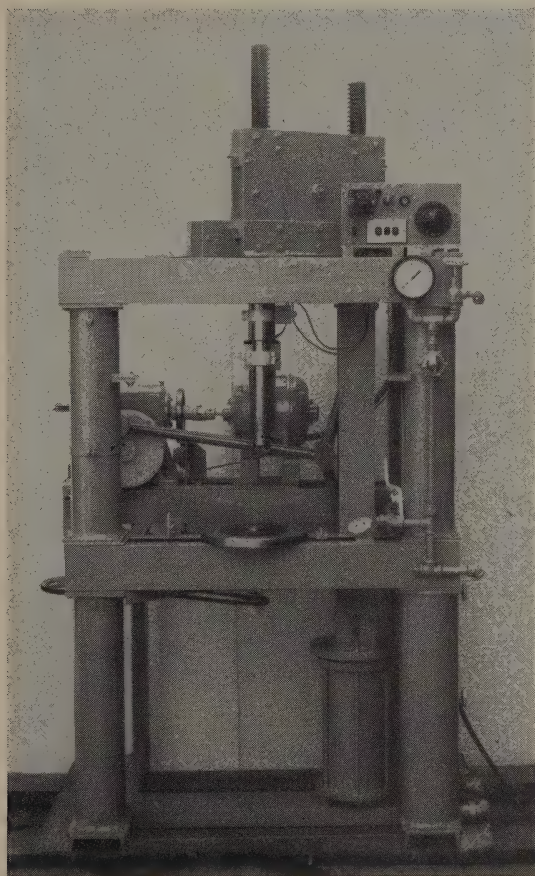
EXAMPLES OF CONCRETE SPECIMENS cored from pavements for study by Concrete Section of Materials and Research Laboratory

Division of Architecture and the Division of Purchasing. Experimental work on various paint products has continued. One complete bridge, (Leffingwell Creek, V-SLO-56) has been completely sandblasted and painted as an experimental project in collaboration with the Bridge Department. Traffic line experimentation continues to be a major project.

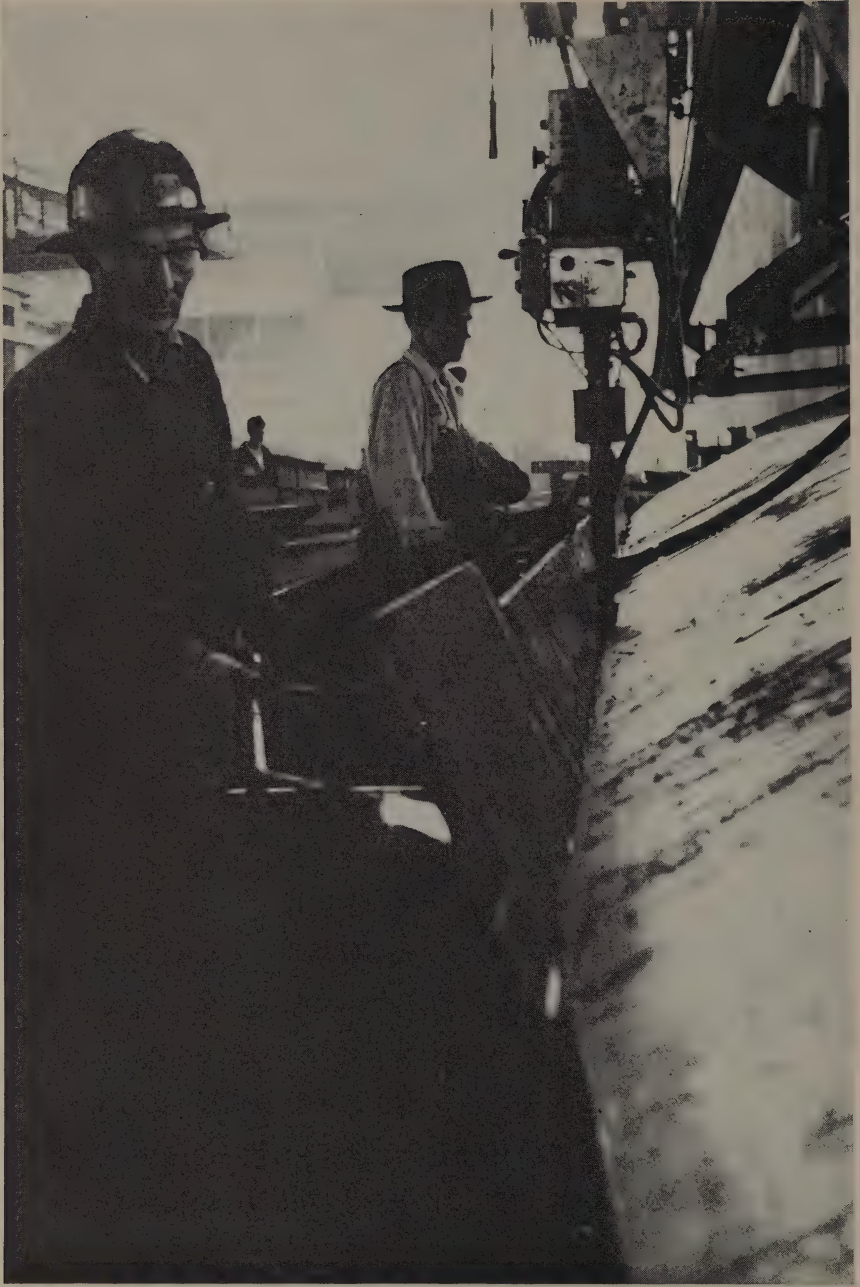
The acquisition of new scientific equipment and testing apparatus has been above normal this year. A late model spectrophotometer is among the items purchased. The chemical library has also been augmented with late publications.

Cement and Concrete Unit—Activities of the cement and concrete unit have, as in the past, been primarily concerned with routine acceptance and control testing of field portland cement and concrete with a moderate amount of research being performed during the period.

Routine work in addition to the usual testing consists of expansive reactivity determinations of field aggregates, physical tests on pipe sealing and concrete curing compounds, and physical tests on concrete masonry units and burned brick.



CALIFORNIA TYPE MECHANICAL COMPACTOR
constructed in the Materials
and Research Department



CONSTRUCTION OF ALL-WELDED STEEL GIRDER being inspected by
Materials and Research Department

A few of the research projects conducted during the year are summarized as follows:

1. The effect of various conditions of exposure of air, carbon dioxide and moisture on the time of set and related properties of portland cement. This study has now been concluded and a full report on the findings has been made.
2. Volume changes of concrete as affected by heat, moisture, weathering, cement types and certain admixtures. This project has required the fabrication and continued weekly measurements of one hundred and thirty-five (135) $3'' \times 3'' \times 11\frac{1}{4}''$ concrete bar specimens. This study is continuing.
3. Studies to revise some of the routine tests now in use, for cement and aggregates. Also investigations to develop new tests.
4. Construction of a concrete pavement test section at Vacaville during October, 1951, to measure the performance of pavement slabs made of concrete containing $1\frac{1}{2}$ - and $2\frac{1}{2}$ -inch aggregates, also with admixtures of "Hydropel" and pozzolonic material. This test section also contains weakened plane joints installed diagonally at 60-foot intervals for comparison with the usual transversely installed joints at 15-foot intervals.
5. Assistance and advice were given field men regarding the use of air-entraining agents and calcium chloride in concrete on various projects.
6. Considerable work was done in establishing, surveying, sampling and testing of materials of test sections in various parts of the State in connection with the truck weight and pavement condition survey.

Structural Materials Section

Of major interest during the past year has been the upswing in the use of welding in the fabrication of structural steel. To meet this challenge the Structural Materials Section has explored and developed means of practical quality control in the fabrication of large welded structures. A balanced program of welder qualification, pyrometer, radiographic, dye check, trepanning, and personal inspection has been developed.

Inspection and testing forces in Sacramento, Berkeley and Los Angeles performed approximately 18,000 individual tests while sampling and inspecting approximately 25,400,000 pounds of structural steel, 25,000,000 pounds of reinforcing steel, 288,500 linear feet of concrete and clay pipe, 285,000 board feet of timber, 51,000 linear feet of timber piling, 159,000 square feet of expansion joint filler, 115,600 linear feet of steel guard rail, and miscellaneous other materials.

This section has also continued collaboration with the Service and Supply Department by conducting studies and developing specifications for various commodities ordered by the Division of Highways. New specifications have been developed for red flagging, asbestos washers, paper, reproduction paper, woven measuring tapes, cotton cord, and reflector buttons.

This section has also furnished skilled mechanical assistance and electronic instrumentation to various sections of the laboratory, headquarters

departments, and districts in the development or improvement in specialized testing equipment. This has included deflection measurements of asphaltic and portland cement concrete surfaces, improvements of the Roughometer and numerous other projects. Work has also been started on equipment for a dynamic weighing recorder, differential thermal analyzer, and the testing of various types of light globes and tubes.

Some of the more important new testing equipment received during the year by the Structural Materials Section are the following:

1. Brush Universal Analyzer and Recording Oscillograph used for recording static to low frequency output of SR-4 gages.
2. Sierra Electronic Amplifier and Power Supply for amplifying the output of SR-4 gages under the influence of static to high frequency loadings, for recording on Highland Oscillograph or Dumont Cathode Ray Oscillograph.
3. Soniscope for determining dynamic modulus of elasticity of portland cement concrete and for research on soils and asphaltic concrete.
4. Slipperiness tester built from Bureau of Standards plans for testing slipperiness of waxed floor surfaces.
5. Elmendorf tearing tester for determining tear resistance of paper and paper products.

EQUIPMENT

The Equipment Department has been alert to the intensified highway building program which has been greatly accelerated since the end of World War II, and has correspondingly increased its scope and activity to keep pace with current requirements and also to meet future anticipated growth. In line with this program, many important refinements, extensions and services have been improved, or added.

The department is under the direction of the Equipment Engineer, who reports directly to the Assistant State Highway Engineer, Operations. He, in turn, is responsible for the procedures in actual highway operations, including the Construction and Maintenance Departments, these two being the most extensive users of rental equipment.

The reorganization in 1946 which brought about the consolidation of these operational departments under one head has been very helpful to this department in minimizing the number of contacts and paper work necessary to properly perform its functions.

Outside Rentals

Where specific work requires specialized equipment, or is required only for short periods of time or other limiting factors, and it is not practical for the Equipment Department to supply state-owned units, equipment may be rented from outside parties through service agreements. While there is a considerable rental rate differential in favor of state-owned equipment because of nonprofit operations, the service agreement method has proven economical in instances where limited use of equipment does not justify heavy capital investment by the State.

Operation and Finance

Under the regulations which require this department to be self-supporting, it is necessary to establish rental rates and to collect rentals for each piece of equipment used. These rental rates are calculated to provide for cost, upkeep, depreciation, and administration.

In general, a unit is depreciated to 80 percent of its cost, based upon the estimated length of its life, a method which has proven most satisfactory. The total depreciation so figured, when added to the amount realized from the unit's ultimate sale will usually buy a replacement in kind. This, of course, is based upon a uniform market for the purchase and sale of equipment, and any variation in this market affects directly the amount of equipment which can be purchased with depreciation funds.

All equipment units of like kind and type are classified in groups, and a state-wide uniform rental is established for each group, which is based on the average cost of buying and maintaining the units in the group. Averaging these costs and establishing uniform rental rates permits equitable distribution of charges to various jobs. Simplification of office routine and accounting procedures has resulted from this group classification method.

Recent innovations in the rental schedule permit the grouping of similar equipment units with identical rental rates under an identifying item number. This type of grouping has shortened the time and facilitated the checking of equipment pay rolls and other equipment records.

The standardization of rental rates and the streamlining of the equipment rental reporting procedure includes the adoption of standard nomenclature for highway equipment and a system of record cards which makes possible the speedy identification of each unit in the equipment rental system. This greatly expedites the accurate ordering of equipment repair parts and the replacement of the units themselves.

To supplement the record-card system, the department is also installing a photograph file wherein various individual highway rental units, their equipment and special accessories, are depicted and described.

The following general financial summary of operating expenses for the 12 months ending June 30, 1951, as compared with the period ending June 30, 1952, indicates considerable growth.

	<i>June 30, 1951</i>	<i>June 30, 1952</i>
Equipment repairs -----	\$2,177,106.04	\$2,705,509.47
Miscellaneous expenses -----	198,511.34	331,768.95
Administrative expenses -----	474,617.83	528,628.79
Depreciation reserve -----	1,517,998.81	1,379,154.00
Total expense -----	\$4,368,234.02	\$4,945,061.21
Total income -----	4,606,354.90	5,212,970.11
Excess income over expense -----	\$238,120.88	\$267,908.90

The operating deficit from previous years is being decreased by the amount of income in excess of expense.



SUCTION-TYPE LITTER COLLECTOR—operating position



SUCTION-TYPE LITTER COLLECTOR—dumping position

The following table contains pertinent miscellaneous data for each shop:

Shop	Location	Personnel	Floor space (square feet)	Inventory value rental equipment
Hq.	Sacramento	171	75,177	\$1,186,379.65
1	Eureka	39	24,567	1,526,265.85
2	Redding	63	32,888	2,234,020.11
3*	Marysville	12	None	1,410,811.26
4	Oakland	50	32,520	1,462,555.74
5	San Luis Obispo	32	12,737	944,031.66
6	Fresno	42	16,620	1,438,988.95
7	North Hollywood	70	24,931	2,053,226.82
8	San Bernardino	40	12,321	1,272,150.82
9	Bishop	23	15,776	739,755.90
10*	Stockton	13	None	1,236,852.05
11	San Diego	29	18,045	808,409.46
San Francisco-Oakland				
	Bay Bridge, Oakland	†	4,618	224,079.18
				\$16,537,527.45

* Equipment repair at Headquarters Shop.

† Shop personnel not under Equipment Department.

The investment in equipment owned by the Division of Highways is distributed to various classes as follows:

TRUCKS AND PASSENGER VEHICLES

All trucks, $\frac{1}{2}$ -ton to 10-ton	\$6,450,345.00
Busses, jeeps, station wagons	343,025.00
Passenger automobiles	1,954,300.00
Rotary snow plows	924,000.00

CONSTRUCTION EQUIPMENT

Motor graders	2,574,250.00
Shovels, power	516,500.00
Loaders	612,600.00
Tractors	919,600.00
Snow plows, push	283,000.00
Compressors	296,500.00
Miscellaneous other construction equipment: rollers, mixers, trailers, pumps, drills, mowers, etc.	1,663,407.45
Total inventory rental equipment	\$16,537,527.45

Equipment Development

The policy of the Equipment Department in most instances is to purchase only standard equipment in current production from well-known manufacturers. This policy makes possible the carrying of minimum quantities of repair parts in the department's own stocks, assures the availability of repair parts from dealer's stocks, and enables its repair forces to become thoroughly familiar with the most efficient equipment maintenance and repair procedures.

Occasionally, because of certain specialized applications, or because of the unavailability of suitable standard equipment for unusual or extreme conditions, it becomes necessary for the department to develop special equipment or to reconstruct or improve the available standard manufactured equipment.



PERSONNEL HOIST FOR OVERHEAD WORK shown in lowered position

Many of the special units developed by this department have been well received in distant parts of the world and others have been given much favorable nation-wide publicity. The most recent of these is a suction-type litter collector developed in the North Hollywood Shop to meet the specialized needs of the southern area of California. This unit, as redesigned, bears but little resemblance to the original standard unit. It is now performing in an outstanding manner in efficiently maintaining a high standard of roadside cleanliness in the Los Angeles area.

The extensive use of auger-blower type "rotary" snow plows in combating the heavy snows of the past few years has resulted in the adoption of four-wheel-steering for trucks on which these plows are mounted as being the most efficient and maneuverable units for this extremely heavy and important work. The work of the Equipment Department has influenced a number of truck manufacturers to discontinue classifying the four-wheel-steer truck as a special unit and to list this design as a standard model.

When practicable and economical, obsolete or surplus equipment is converted to new uses, and its value to the State is thus restored or enhanced. The proper maintenance of regulatory, directional and other highway signs required that a portable sign washing unit be developed. The once essential, asphaltic-emulsion trailer-type patching kettle, which had been outmoded, provided an ideal unit for carrying detergent solutions under pressure and made possible the efficient removal of road dirt from signs and guard rails at a minimum of expense.

A number of district shops, heretofore without adequate yard and road crane facilities, are being supplied with units built up at the Sacramento shops from heavy obsolete highway trucks and federal surplus crane equipment, thus promoting efficiency and safety in handling heavy materials at relatively little actual cost to the State.

The field of new mechanical development is constantly being explored for possible applications to highway use. The installation of hydraulic torque-converters on certain asphalt pump drives and also on state-owned ferry boats illustrates such applications and has resulted in the elimination of equipment maintenance problems.

Two unusual pieces of equipment, not ordinarily considered essential to highway maintenance are the new fire truck and the heavy-duty wrecker recently assigned to the San Francisco-Oakland Bay Bridge. The 500-gallon pumper is of the most modern type and is the equal of the



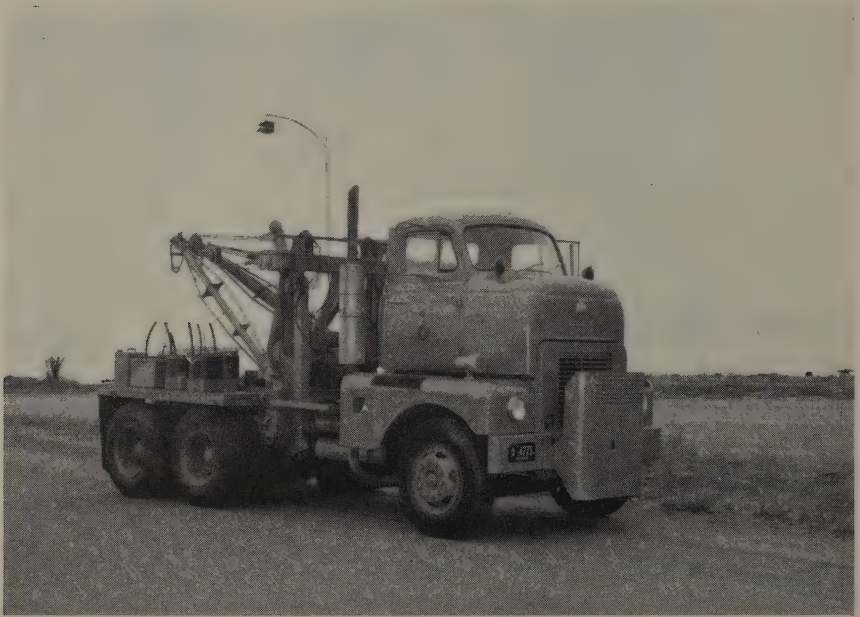
PERSONNEL HOIST FOR OVERHEAD WORK, fully extended. Vertical height from platform to ground 36 feet 6 inches.

equipment used by most organized city fire departments. The wrecking crane is a heavy-duty, cab-over-engine model, capable of removing the heaviest of disabled trucks and trailers from the bridge. These emergency units safeguard the traveling public and minimize delays on the bay crossing and also indirectly afford protection to the bridge, its equipment and facilities.

The range of operations of the foundation exploration drilling crew of the Bridge Department has been increased by the construction of a pontoon type float, enabling the crew to explore the earth structure underlying rivers and other comparatively shallow bodies of water. The portable drill rigs used by this crew are mounted on the float and the float secured in position. Once anchored, drilling proceeds almost as well as on dry land.

Parts Departments

A standard card system has been developed to simplify the ordering of replacement parts necessary to maintain the stock of thousands of individual items carried in the parts departments of the various shops. This system is based on a perpetual inventory and eliminates the need for recurrent counting and checking. Its precise control of stock permits the maintaining of an entirely adequate stock of parts with a minimum actual investment and at a very considerable saving in labor.



EXTRA HEAVY DUTY WRECKER TRUCK used on San Francisco-Oakland Bay Bridge. Assembled in Equipment Shops.

Disposal of Old Equipment

As previously stated, after considerable experience in figuring the life of construction and maintenance equipment, about 80 percent of its original cost is collected in depreciation, this amount being spread over its useful life.

During the fiscal year from July 1, 1951, to June 30, 1952, equipment requiring an original expenditure of \$824,574.41 has been sold for \$322,083.24, or 39 percent of its original cost. These favorable sales have been influenced by a rising market and competitive conditions among used equipment buyers. By use of discretionary rights, permitted this office, to reject, when not considered adequate, the high bid received for disposal of any equipment, the department has secured an increase of \$5,777.30 through readvertising for better offers.

ADMINISTRATIVE FUNCTIONS OF OPERATIONS

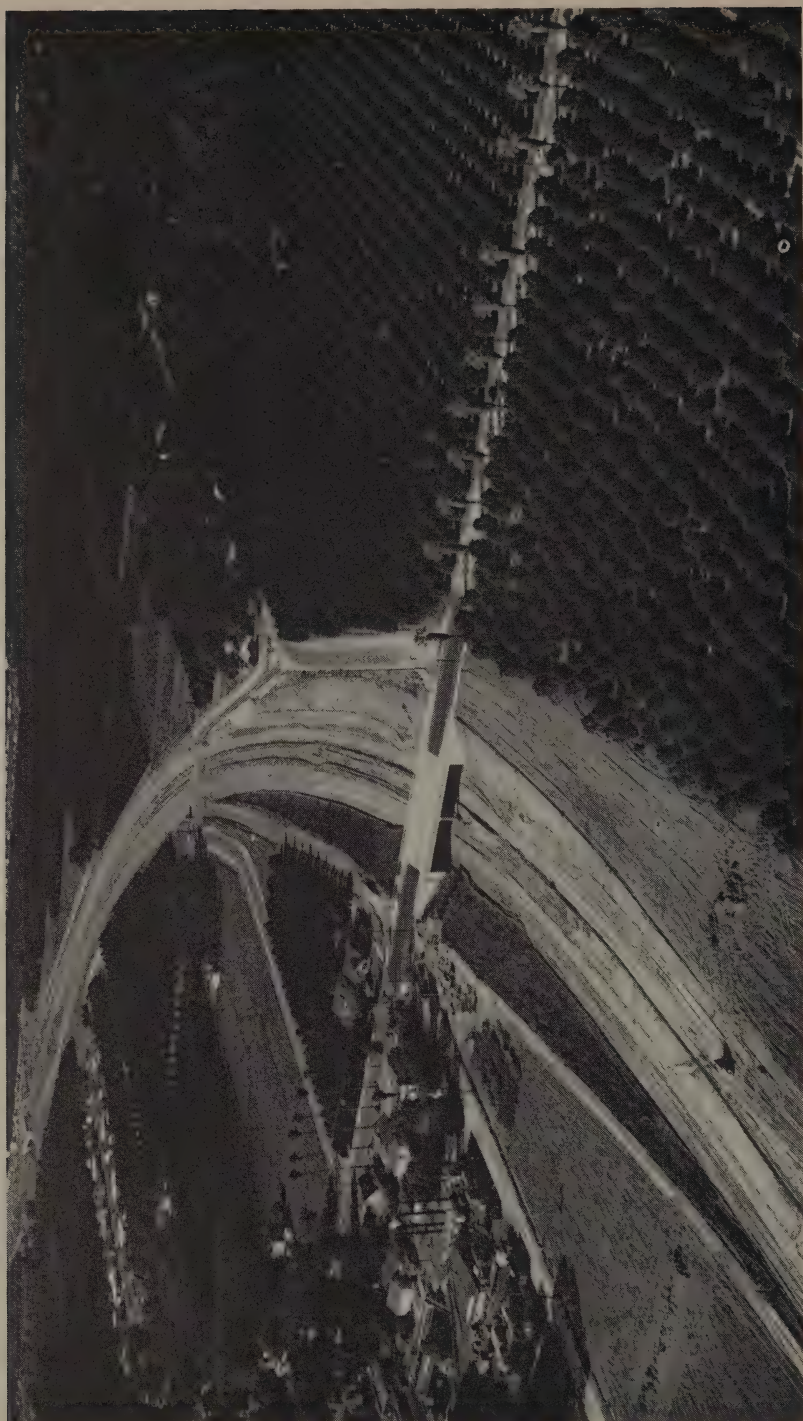
Service Agreements and Miscellaneous Small Contracts

During the past year the types of work which may be performed under service agreement procedure remained the same as in recent years but the amount of work not subject to provisions of the State Contract Act was increased by legislation and policy to \$2,000. This change makes it permissible to obtain informal bids on minor projects and award contracts for many items which previously would have required formal district advertisements. In most cases the change has made it possible to save time by getting work under way within the usual advertising period. The usual agreements include services of all kinds, equipment rentals, minor projects, and projects for clearing rights of way by alterations of buildings and houses, or demolishing structures.

During the year the number of agreements were reduced by reason of a change in policy permitting the cost of spreading of asphalt to be made a part of a purchase order for the asphalt rather than requiring an agreement be issued for the rental of a distributor truck. A decision was also made by the department to reduce the number of service agreements with public utility companies for recurring monthly services. Under the new procedure, one blanket agreement form for a two-year period is considered sufficient for record and auditing purposes and any new services may be ordered by letters adding copies of such instructions to the blanket agreement. For the fiscal year ending June 30, 1952, over 4,300 service agreements were reviewed or approved amounting to a total of over \$2,800,000.

Because of storms which damaged the highways during last winter the number of service agreements for equipment rental reached a total of 1,306 and amounted to nearly \$1,500,000, an increase of one-half million dollars over that of the previous fiscal year.

The service agreement procedure was used in many cases in clearing rights of way in advance of construction even though a large number of the buildings were sold. Fifty-nine projects for altering buildings, moving them, constructing retaining walls, fences and drilling wells were under way during the year with costs totaling \$433,250.29. Of these, 14 were incomplete on June 30, 1952. The work of demolishing buildings



CROSSING OF FOURTH STREET over Santa Ana Freeway in City of Santa Ana (U. S. 101)

continued active with 84 jobs accepted and 17 still going as of the end of the fiscal year. A total of \$100,290.20 was paid for such demolition. As usual in this latter type of work, when it is reasonable to expect a credit value for salvaged materials, bids are taken on an alternative basis giving the contractor the opportunity to accept payment or pay the State for the removal operations. In 30 cases the contractor accepted the latter alternative and a total of \$25,514.21 was received by the State.

Appearances were made by Division of Highways representatives at hearings of the Public Utilities Commission concerning the proposed rules of that commission pertaining to dump truck rentals. In addition to an increased minimum rate structure, the commission offered several proposals, one being that all materials including excavations and slides be weighed, or a weight factor applied, with a minimum pay distance of one mile and another that hauling under bunker loading and power loading have the same minimum rate. A uniform hourly rate for each size of truck, fully operated and including driver, was also proposed for Northern California. A decision has not been received from the Public Utilities Commission.

Equipment Rental Rates

Further progress was made in the study of rates being charged by contractors for equipment rentals on contract change orders. The proposed rates for a variety of equipment have been prepared and are being submitted to the various chapters of Associated General Contractors for consideration and discussion.

Contractors' Claims

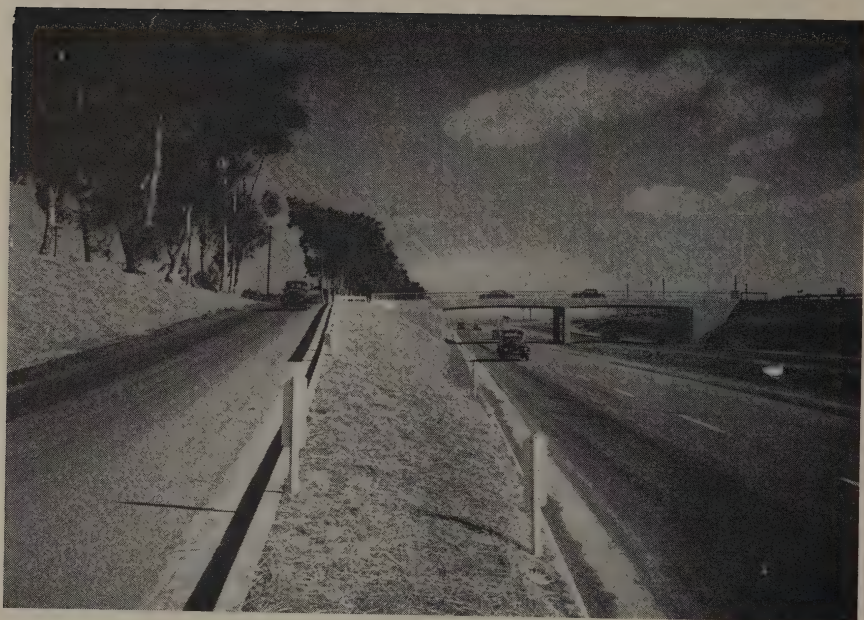
In line with past procedure the Division of Highways Board of Review considered claims of contractors and made recommendations to the State Highway Engineer. The Board of Review is comprised of the Assistant State Highway Engineer, Administration, the Assistant State Highway Engineer, Operations, and an attorney of the Division of Contracts and Rights of Way. In cases involving bridge contracts, the Assistant State Highway Engineer, Bridges, serves instead of the operations head. During the fiscal year four claims were heard, two of which were accepted in whole or in part, one denied and the fourth one is pending a study by the attorneys for the State and the Contractor.

Considering the large number of contracts under way and completed during each year the number of claims are comparatively few. Much credit is due the field forces to the thorough consideration of problems as they arise and for arriving at an understanding on controversial subjects before they reach the necessity of a hearing or legal action. In six cases claims were settled by means of change orders without submission to the Board of Review while in four instances semi-final estimates have been paid leaving the items in question open to further discussion. Final estimate checks have been cashed on three contracts without prejudice to the filing of claims. Three cases of long standing remain for a final decision by the courts.

Prevailing Wages

As in past years, ever since the inception of the Prevailing Wage Law, wage rates were furnished for all advertised projects, minor contracts and equipment rental agreements.

New wage contracts between labor and contractors for most of the labor classifications employed in highway work were completed in both northern and southern parts of the State. Only a few such contracts remain unapproved by the National Wage Stabilization Board.



"E" STREET OVERCROSSING ON MONTGOMERY FREEWAY in Chula Vista on U. S. 101 in San Diego County. Federal aid project.



AERIAL VIEW OF SANTA ANA FREEWAY near Eastman Avenue in Los Angeles County, showing paving operations in progress. Federal aid project.



AERIAL VIEW OF HOLLYWOOD FREEWAY looking east toward Los Angeles Civic Center showing traffic using the freeway. Alvarado Street Undercrossing in foreground. Federal aid project.

ADMINISTRATION

Those Headquarters functions of the Division of Highways under the executive direction of the Assistant State Highway Engineer, Administration, include the following activities: Office Engineer's functions; county and county cooperative projects; city and city cooperative projects; and service and supply.

In most engineering organizations the duties which come under the supervision of the Office Engineer follow to some degree a universal pattern. In the California highway organization there are certain functions under direction of the Office Engineer which in many state highway departments are assigned to other departments.

The Office Engineer supervises the administration of federal-aid apportionments to California, with the exception that the federal-aid secondary highway apportionments to be expended on county roads are processed under county and county cooperative projects. Recommendations of bid ratings for contractors who wish to be prequalified to bid on state highway construction are made by the Office Engineer and specifications preparation and their final correlation with contract plans and estimates are under his direction. He also supervises the advertising for and opening of bids and preparation of contracts, together with the processing of progress and final pay estimates on contracts. Distribution to contractors of calls for bids, plans, and special provisions for proposed contract construction projects is under the direction of the Office Engineer, as well as records of projects on which a contractor contemplates bidding, as a control to keep within his prequalified bidding capacity. Other Office Engineer functions include: control of administrative accounts; engineering budget control and preparation of financial votes for action by the Highway Commission; preparation of route adoption and freeway declaration votes, engineering review and preparation of condemnation resolutions, abandonment, and relinquishment votes, all for the commission's action. The Office Engineer also supervises the compilation and analysis of construction cost data and other statistical information; preparation and publication of departmental reports; blue-printing and reproduction for all Headquarters' offices; and the department's general files.

The county and county cooperative projects' function covers administration of that portion of federal-aid secondary highway apportionments allocated to the counties of California for improvement to county roads located on the Federal-aid Secondary Highway System. All contacts with county road commissioners and supervisors are handled through this function and its representatives in district offices, including the administration of those provisions of the Collier-Burns Highway Act relating to established mileages on both the primary and secondary systems of county roads. Administration of the State's contributions to Joint Highway Districts is also performed under this function.



WASHINGTON AVENUE INTERCHANGE on Eastshore Freeway north of San Lorenzo in Alameda County. Federal aid project.



COUNTY ROAD IMPROVEMENT partially financed with F. A. S. funds.
Carmel Valley Road in Monterey County.

The city and city cooperative projects' function involves administration by the Division of Highways of the five-eighths of a cent of gas tax funds apportioned to cities for construction and maintenance of major city streets under the provisions of the Collier-Burns Highway Act of 1947.

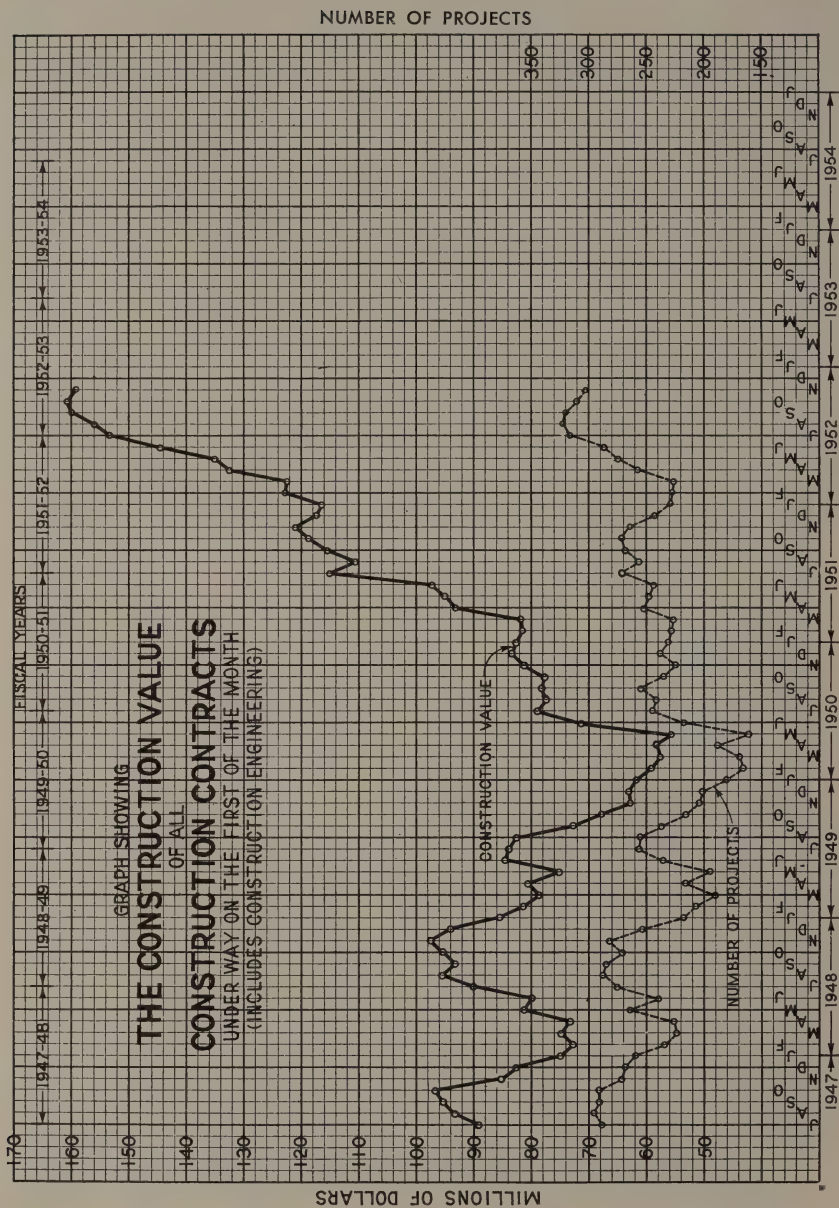
The Service and Supply Section administers procurement, warehousing and distribution of all supplies and equipment, other than road equipment, for the Division of Highways. Service and Supply also administers and processes applications and documents under federal regulations for controlled materials for all highway, street and road building agencies in the State. Contracts for all photogrammetry activities of the Division of Highways are handled by Service and Supply.

Details of some of the more pertinent phases of activities under the four functions directed by the Assistant State Highway Engineer, Administration, during the Fiscal Year 1951-52 appear on the following pages of this section of the Sixth Annual Report.

Prequalification of Contractors

In order to bid on state highway projects estimated to cost \$15,000 or more all contractors are required to be prequalified by the department on the basis of their financial condition and experience and are given a maximum rating which limits their bidding capacity for each of the several types of construction.

During the fiscal year ending June 30, 1952, the total number of contractors prequalified to bid on the various types of state highway con-





AERIAL VIEW OF RAMONA FREEWAY looking easterly showing Floral Park Pacific Electric Railway Underpass; Floral Park on ramp; Warwick Road Overcrossing and Fremont Avenue Undercrossing. Federal aid project.

struction decreased from 613 on July 1, 1951, to 611 on June 30, 1952. The combined bidding capacity of these 611 prequalified contractors is \$1,120,000,000, which is \$67,000,000 more than it was a year ago. In determination of this total bidding capacity a maximum of \$20,000,000 for individual ratings is used, that is, ratings in excess of that amount are entered at the twenty million dollar figure.

The following tabulation gives the number of contractors prequalified by the Division of Highways on June 30, 1952, arranged by several brackets of bid ratings

<i>Rating</i>	<i>Number of contractors</i>
\$1,000,000 and over -----	206
250,000 to \$1,000,000 -----	418
125,000 to 250,000 -----	504
50,000 to 125,000 -----	547
Up to 50,000 -----	611

During the year bids were opened on 399 projects including both roads and structures, compared with 397 in the preceding fiscal year. From this number 376 contracts were awarded and all bids were rejected on 23 projects. It will be noted that there is a difference of the number of contracts awarded between the 376 figure given here and the 360 given in the State Highway Engineer's letter at the beginning of this report. This difference of 16 contracts results from the award of 15 contracts after June 30, 1952, for which bids were opened prior to that date and the award of one contract to complete work on which a contractor had defaulted. There was a slight increase in the average



BRIDGE ACROSS WEST WALKER RIVER about two miles south of Coleville in Mono County. Federal aid secondary route 1094.

number of bidders per project during the last year, the average being 5.3 for the fiscal year as compared to 5.0 for the preceding year. On a monthly basis the average number of bidders varied from a low of 4.0 in August, 1951, to a high of 8.0 in November, 1951. Records of previous years indicate that while normally the high occurs in the fall usually the low is in January or February and it is thought that last year the low occurred in August because of the large volume of projects for which bids were opened during the second quarter of the year.

Construction Cost Index

Compilation and evaluation of data relative to trends of highway construction costs is an important phase of the work of the Office Engineer's section. The California Highway Construction Cost Index, which has been computed quarterly in this office since 1948, reflects the changes in highway construction cost. Using 1940 as the base year with a value of 100, this index is founded upon actual contract prices for eight principal items complete in place, weighted by quantities of the several items for the year 1948.

Highway construction cost trends in California since 1940 are shown by the following tabulation of the index.

<i>Year</i>	<i>Cost index</i>	<i>Year</i>	<i>Cost index</i>
1940 -----	100.0	1950 (2d quarter) -----	180.0
1941 -----	125.0	1950 (3d quarter) -----	189.2
1942 -----	157.5	1950 (4th quarter) -----	194.8
1943 -----	156.4	1951 (1st quarter) -----	215.4
1944 -----	177.8	1951 (2d quarter) -----	238.3
1945 -----	179.5	1951 (3d quarter) -----	221.9
1946 -----	179.7	1951 (4th quarter) -----	245.4
1947 -----	203.3	1952 (1st quarter) -----	224.8
1948 -----	216.6	1952 (2d quarter) -----	224.4
1949 -----	190.7	1952 (3d quarter) -----	221.2
1950 (1st quarter) -----	160.0		

Examination of the index will show the steady rise during the war years to a peak of 216.6 in 1948 and then a drop to 160.0 in the first quarter of 1950. With the beginning of the Korean War in the second quarter of 1950 the rising spiral began again reaching its highest point (245.4) in the fourth quarter of 1951. During the first quarter of 1952 it dropped 20.6 points and by the third quarter was down to 221.2 which is 9.9 percent under the high of the fourth quarter of 1951 but still 38.3 percent above the low of the first quarter of 1950.

Progress in Freeway Development

Each year of study and analysis of traffic congestion on the State Highway System indicates the increasing importance of further development of freeways in metropolitan areas and expressways on the rural arterials which serve to connect the metropolitan centers with each other. The policy of the Division of Highways has for some years been one of advancing such development on several fronts at once to the extent the available funds will permit. At the same time, those portions of the State Highway System which carry lesser volumes of traffic cannot be neglected but must be reconstructed to meet the needs of the

CONTRACTS AWARDED BETWEEN JULY 1, 1951, AND JUNE 30, 1952

State Highway System

<i>Number of Contracts</i>	<i>Type</i>	<i>Center-line, Miles</i>
20	Portland cement concrete.....	52.6
3	Asphalt concrete.....	4.1
96	Plant mixed and road mixed surfacing.....	318.85
7	Bituminous surface treatment.....	20.3
7	Seal coat.....	98.7
4	Grading	7.7
56	Traffic signals and lights.....	—
71	Bridges	—
33	Miscellaneous	—
<hr/>		<hr/>
297	Totals	502.25

Not on State Highway System

County Roads, Federal Aid Secondary

26	Plant mixed and road mixed surfacing.....	109.7
5	Bituminous surface treatment.....	16.1
3	Seal coat	31.2
13	Grading	45.0
11	Bridges	—
1	Miscellaneous	4.6
<hr/>		<hr/>
59	Totals	206.6

State Parks

1	Grading	1.7
3	Miscellaneous	—
<hr/>		<hr/>
4	Totals	1.7

traffic using them. While this policy of scheduling construction on a state-wide basis may make development of individual routes appear slow, it is believed that it produces the best in balanced development that is possible under the pay-as-you-go financing method followed in this State.

However, statistical data on state-wide highway construction over the past several years indicates notable advancement as shown on the accompanying graph of the construction value of all construction contracts since 1947.

Between the passage of the Collier-Burns Highway Act in 1947 and June 30, 1952, contracts for a total of 3,065 center-line miles of state highway construction have been placed under way. Broken down to fiscal years, this center-line mileage is as follows:

1947-48	646 miles	1950-51	530 miles
1948-49	657 miles	1951-52	502 miles
1949-50	730 miles		

The drop in mileage during the last two years results partly from rising costs and partly from the increased ratio of freeway and expressway mileage to the total, as these improvements are necessarily more expensive to build with their additional lanes and many structures. The tabulation on page 74 gives the number of contracts by mileage and types which were put under way between July 1, 1951, and June 30, 1952. The tabulation on page 77 shows the total mileage in the State Highway System by type of surface both inside and outside of cities.

The above total figures cover work on the State Highway System only and do not include 873 miles of federal-aid secondary construction on county roads nor work on State Park roads.

Of the 3,065 miles of construction during the last five years, 578 miles was for divided highways of four or more lanes on the State system including both freeway and expressway types. Broken down to fiscal years these 578 center-line miles of divided highway construction are as follows:

1947-48	106 miles	1950-51	115 miles
1948-49	107 miles	1951-52	99 miles
1949-50	151 miles		

Records in Headquarters Office at the present time show 105 miles of the full freeway type on the State Highway System, that is, divided highways with no cross traffic or left turns at grade.

For information relative to progress on freeway construction the accompanying tabulations (pages 78 to 105, inclusive) are given to show, contract by contract, the work accomplished on the principal metropolitan freeways since the Division of Highways has been building this ultra-modern type of highway facility. In these tabulations the column headed "construction cost" includes only the actual construction and construction engineering charges; it does not include the cost of right of way acquisition or right of way clearance.



ATLANTIC BOULEVARD INTERCHANGE on Santa Ana Freeway in Los Angeles County.
Union Pacific Railroad crossing in foreground. Federal aid project.

MILEAGE BY TYPES OF STATE HIGHWAYS
(Including Totals for Outside and Inside Cities)
June 30, 1952

Type	North			South			Totals		
	Outside cities	Inside cities	Total	Outside cities	Inside cities	Total	Outside cities	Inside cities	Grand Total
Portland cement concrete-----	628,259	99,580	727,839	635,996	219,105	855,101	1,264,255	318,685	1,582,940
Asphalt concrete-----	353,475	153,111	506,586	266,661	200,965	467,626	620,136	354,076	974,212
Dual and combination types ¹ -----	145,898	41,981	187,879	248,394	91,766	340,160	394,292	133,747	528,039
Bituminous macadam-----	336,881	25,152	362,033	140,620	45,212	185,832	477,501	70,364	547,865
Plant mix gravel-----	1,728,369	90,604	1,818,973	1,716,944	141,400	1,858,344	3,445,313	232,001	3,677,317
Road mix gravel-----	933,892	11,247	945,139	1,548,931	14,300	1,563,231	2,482,823	25,517	2,508,370
Oiled gravel-----	1,317,460	13,613	1,331,073	47,609	1,016	48,625	1,365,069	14,629	1,379,698
Gravel-----	13,773	0,132	13,905	-----	-----	-----	13,773	0,132	13,905
Oiled earth-----	1,079,598	4,014	1,083,612	1,038,454	5,599	1,044,053	2,118,052	9,613	2,127,665
Earth-----	193,058	-----	193,058	62,754	-----	62,754	255,812	-----	255,812
Bridges-----	68,509	13,766	82,275	30,207	6,741	36,948	98,716	20,507	119,223
Unconstructed road-----	243,800	24,332	268,132	202,481	37,266	239,747	446,281	61,598	507,879
Totals-----	7,042,972	477,532	7,520,504	5,939,051	763,370	6,702,421	12,982,023	1,240,902	14,222,925
Totals—constructed road-----	6,799,172	453,200	7,252,372	5,736,570	726,104	6,462,674	12,535,742	1,179,304	13,715,046

¹ Dual and combination types consist of two or more parallel types of surfacing.

NOTE: This table does not include non-add mileage such as frontage roads, connections, etc.

EASTSHORE FREEWAY—NORTH

Contract number	County	Route	Section	Location	Miles	Award date	Completion date	Type of work	Construction cost
64TC16	Alameda	69	Env	At Paraffine Co's. Plant, under Bay Bridge Approach		3/ 3/34	9/12/34	UC.	\$28,337
84TC1	Alameda	5, 69	Oak, Env	Over A.T.&S.F.R.R., S.P.Co. & Key System Tracks (Distr. Struct.)		4/24/35	8/21/36	Structure	1,276,800
64TC29	Alameda	69	Ber	At Folger Ave.		5/31/35	12/ 6/35	UC.	137,247
84WC1	Alameda	69	Ber	Bet. Folger Ave. & Gilman St.	2.0	10/16/35	5/ 8/36	Dredger Fill	237,873
814PGWC1	Alameda	69	Alb	Near El Cerrito Hill		11/13/35	9/16/36	UC.	268,281
84TC8	Alameda	69	Ber	Bet. Folger Ave. U.P. & 9th St.	0.3	4/29/36	9/ 2/36	Grade & Pave.	35,426
84PWC2	Ala. C.C.	69	Ber, Alb, A, Reh, ECr	Bet. Folger Ave. U.P. & 9th St.					
84WC4	Alameda	69	Env, Ber	Bet. Camelia St. & San Pablo Ave.	3.1	6/16/36	8/ 2/37	Grade & Surf.	275,928
84T8	Alameda	69	Oak, Env, Ber	Bet. Folger Ave. & Camelia St.		6/16/36	12/19/36	Grade & Surf.	155,780
84W1	Alameda	69	Ber	Bet. Distr. Struct. & Folger Ave. U.P.	1.7	8/17/36	12/ 3/36	Lights	22,096
84TC15	Alameda	5, 69	Env, Ber	Bet. Folger Ave. Wye & University Ave.	1.7	8/17/36	12/ 3/36	Lights	19,294
44TC4	Ala. C.C.	69	Ber	Bet. Distr. Struct. & University Ave.	3.3	4/22/38	12/ 2/38	Landscape	27,793
44WC1	Alameda	69	Ber, Reh	Bet. Powell St. & Panhandle Blvd.	1.3	1/ 6/42	10/21/42	Grade & Pave.	238,617
4W13	Alameda	69	Ber	In Vicinity of Gilman St.	0.5	8/22/44	3/ 2/45	Grade & Pave.	83,568
4WC16	Alameda	69	Ber	In Vicinity of Gilman St.		8/23/44	6/ 5/45	Signals	8,901
14TMC2	Alameda	69	Ber, Alb	Bet. University Ave. & El Cerrito Hill OH.	0.9	12/11/44	5/12/45	Pave.	102,989
1-4TC90-P	Alameda	5, 69	Oak	At Distribution Structure.		8/11/48	5/ 9/49	Waterproof & Paint Bridge	43,559
4T141	Alameda	69	Alb	Across Cerrito Cr.		7/ 7/49	3/ 6/50	R.C. Culv. & Detours	*33,510
4T141	Alameda	69	Env, Ber	Bet. Powell St. & University Ave.		11/14/50	5/31/52	Widen (6 Turnouts)	*7,512
52-4TC2	Alameda	69	Ber, Alb	Bet. Ashby Ave. & El Cerrito OH.	2.4	4/17/51	7/16/51	Grade & P.M.S.	*116,054
52-4TC37-F	Alameda	69	Oak, Env	Bet. Distr. Struct. & Ashby Ave.	1.5	6/24/52	Underway	Grade, P.C.C., R.C. OC. & R.C. UC.	*2,766,619
Total	to 6/30/52.								\$5,886,184

NOTE: * opposite a contract indicates final cost figures not yet available.

EASTSHORE FREEWAY—SOUTH

Contract number	County	Route	Section	Location	Miles	Award date	Completion date	Type of work	Construction cost
14WC8	Alameda	69	Oak	At 5th Ave. Overhead		6/21/46	3/31/48	Std. & Conc. OC.	\$1,953,200
14WC9	Alameda	69	Oak	At Fruitvale Ave.		12/ 9/46	12/15/47	Substruct. of Std. & Conc. OC.	435,477
14WC10-F	Alameda	69	Oak	At 23rd Ave.		6/16/47	12/ 2/48	Std. & Conc. OC.	498,648
14WC31-F	Alameda	69	Oak	Bet. 1 Mi. N. of S.C.L. of Oakland & 0.3 Mi. S. of High St.	2.3			Grade	1,051,544
14WC11-F	Alameda	69	Oak	At 29th Ave.		6/25/47	4/20/48	Std. & Conc. OC.	169,111
14WC12-F	Alameda	69	Oak	At Fruitvale Ave.		6/27/47	6/17/48	Superstruct. for Std. OC.	653,550
14TC31-F	Alameda	69	Oak	At 19th Ave.		8/13/47	12/16/48	Std. & Conc. OC. & Apps.	434,399
4T102	Alameda	69	Oak	At 14th & 23d Aves.		10/22/47	2/21/49	Storm Drains	45,500
0-4TC48-F	Alameda	69	Oak	Bet. 38th Ave. & Oak St.	2.9	3/17/48	Completed	Grade & P.C.C. on C.R.B.	1,640,051
0-14TC37-F	Alameda	69	Oak	Across Blinhurst Cr., Damon St. & East Cr. Slough.		4/ 1/48	8/11/49	3 R.C. Bridges	255,796
0-14TC53-F	Alameda	69	Oak	Bet. 50th Ave. & 38th Ave.	0.7	8/ 3/48	3/30/51	Grade, Pave, 4 Std. & 1 R.C. Br.	*1,739,084
4T115	Alameda	69	Oak	Bet. Sta. 205+24 & 358+50		3/15/49	Underway	Signs	*11,000
1-14TC84-F	Alameda	69	Oak	At High Street		4/ 1/49	5/18/50	Steel OH	749,730
0-4TC83-F	Alameda	69	Oak	Bet. S.C.L. & High St.	3.3	5/20/49	6/ 7/50	Grade, P.C.C. & Std. Structures	*1,498,989
1-14TC84-F	Alameda	69	SLn, Oak	Across San Leandro Cr. & S.P.R.R. at S.C.L. of Oakland					
4T126	Alameda	69	Oak	Bet. S.C.L. & High St.	3.3	1/10/50	4/16/51	Std. Br. & OH	*712,572
4T127	Alameda	69	Oak	At 42nd Ave. Interchange & High St. OH		1/12/50	Underway	Signs, Stripes & Markings	*6,800
51-4TC17-F	Alameda	69	C, SLn, Oak	Bet. Lewelling Blvd. & 0.1 Mi. N. of S.C.L. of Oakland	4.2	3/ 2/50	Underway	Signs, Stripes & Markings	*13,000
51-4TC21	Alameda	69	Oak	Bet. 38th Ave. & Fallon St.	2.8	10/26/50	Underway	Grade, P.C.C. on C.T.B., P.M.S. & 6 Std. Septs.	*3,047,386
52-4TC19-F	Alameda	69	D, Hay, C	Bet. Jackson St. & Lewelling Blvd.	3.9	11/ 8/50	9/13/51	Roadside Development	*110,136
52-4TC22	Santa Clara	69	A	Bet. 0.9 Mi. N. of Rte. 68 & 0.2 Mi. N. of Trimble Rd.	1.8	10/25/51	Underway	Grade, P.C.C. & P.M.S., & R.C. U C, 3 R.C. OC's, R.C. Ped. UC, Std. Br. & Off-Ramp Br., & 2 Std. UC's.	*2,716,346
52-4T16	Alameda	69	C, SLn	Bet. Lewelling Blvd. & S.C.L. of Oakland	4.2	12/21/51	Underway	Grade, P.C.C., P.M.S. & 3 R.C. Brs.	*1,352,546
52-4T23	Alameda	69	D, Hay, C	Bet. Lewelling Blvd. & Hesperian Blvd.		12/26/51	Underway	Signs & Stripes	*16,000
Total to 6/30/52						6/20/52	Underway	Complete Connection for Free Right Turn.	*5,000
									\$19,116,865

NOTE: * opposite a contract indicates final cost figures not yet available.



HEGENBERGER ROAD INTERCHANGE on Eastshore Freeway in Oakland. Federal aid project.



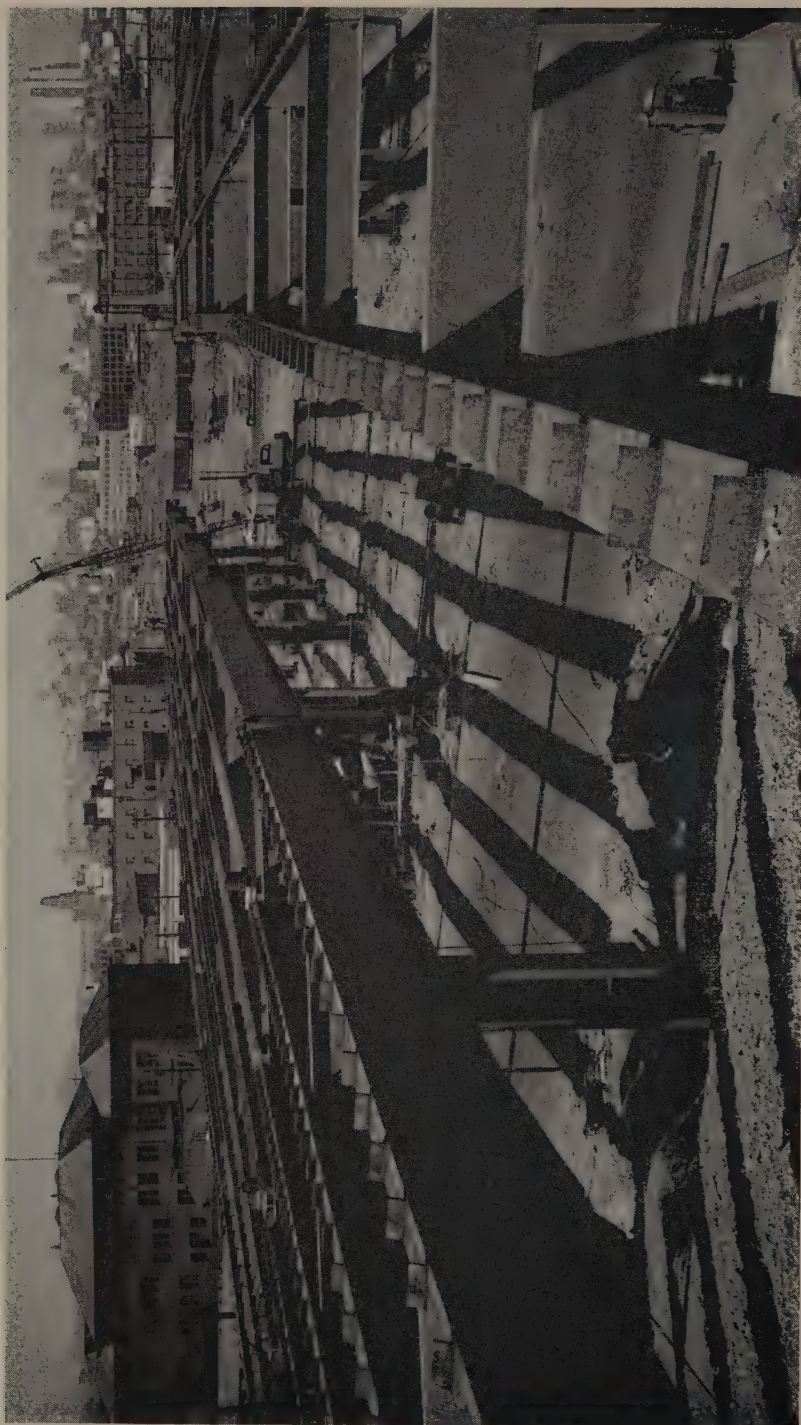
GRADING OPERATIONS ON BAYSHORE FREEWAY in San Francisco. Recently completed Army Street Undercrossing in extreme right. Federal aid project.

BAYSHORE FREEWAY

Contract number	County	Route	Section	Location	Miles	Award date	Completion date	Type of work	Construction cost
14TC2	Santa Clara	68	C	At Ford Rd. abt. 6 Mi. S. of San Jose		12/ 4/45	4/18/47	Undercrossing	\$24,075
14TC3	Santa Clara	68	C	At Coyote Cr. & Coyote Rd. abt. 6 Mi. S. of San Jose		12/ 4/45	7/25/47	Br. & UC	286,284
4TC20-F	Santa Clara	68	C	Bet. San Jose & 0.6 Mi. S. of Ford Rd.	8.1	12/20/45	5/13/47	Grade & Pave	523,840
14TC9	San Mateo	68	SM	At Peninsular Ave.		1/22/46	12/10/47	Std. Overcrossing	218,327
14TC11-F	Santa Clara	68, 2	SJs	At Santa Clara St.	0.6	4/ 1/46	9/19/47	P.C.C. & A.C. on C.R.B. & R.C. Sep. Struct. & Apps.	452,473
4TC24	San Mateo	68	Burl, SM	Bet. Broadway in Burlingame & State St. in San Mateo	2.2	6/22/46	12/10/47	Grade & P.C.C. on C.R.B.	744,639
4TC26	San Mateo	68	SSF	Bet. S. P.R.R. & 0.5 Mi. S'ly	0.5	6/25/46	4/ 2/47	Grade & Sand Drains	226,255
4TC37	Santa Clara	68, 2	SJs	At Santa Clara St.		7/ 6/46	12/11/47	Maintain Detour	7,280
4TC30	San Mateo	68	SSF, F, Burl	Bet. Colma Cr. in S. San Francisco & Broadway in Burlingame	5.1	10/ 9/46	12/31/47	Grade & A.C. on C.R.B.	3,026,235
4TC32	Santa Clara	68, 2	SJs	At Santa Clara St. Underpass	0.5	2/ 6/47	8/18/47	Landscaping	17,341
14TC19	San Mateo	68	F, Burl	Bet. S. San Francisco & Burlingame		2/28/47	3/26/48	Substruct. for 4 Std. OC's	429,581
14TC20-F	San Mateo	68	SSF	In South San Francisco		4/11/47	7/27/48	2 R.C. Brs, 1 R.C. UC, & R.C. Substruct. for 2 OH's	511,380
4TC2	Santa Clara	68	B, SJs	At McKee Road		4/17/47	6/29/48	Signals & Lights	7,822
14TC23-F	San Mateo	68	SSF	At Main Line & Belt Line RR		6/27/47	2/ 4/49	Superstructs. for 2 OH's	667,884
14TC24-F	San Mateo	68	F, Burl	Bet. S. San Francisco & Burlingame		8/ 7/47	1/28/49	Superstructs. for 4 OC's	1,038,090
4TC42-F	San Mateo	68	SSF	Bet. N.C.L. & S. of Colma Cr.	2.1	8/21/47	5/24/49	P.C.C. A.C. & P.M.S.	1,162,167
4TC4	San Mateo	68	SSF	Bet. S. San Francisco & Burlingame		9/10/47	5/16/49	Signals	22,308
4TC46	San Mateo	68	Burl, SM	Bet. Broadway in Burlingame & Peninsular Ave. in San Mateo					
4TC4	San Mateo	68	SSF, F, Burl	Bet. S. San Francisco UP. & Broadway in Burlingame	2.0	2/13/48	7/14/48	Landscaping	10,865
4TC1	San Mateo	68	SSF, F, Burl	Bet. Colma Cr. & Broadway in Burlingame	4.9	2/24/48	9/ 8/48	Restore Grade	7,133
4TC53	San Mateo	68	SSF, F, Burl	Bet. Colma Cr. & Broadway in Burlingame		4/29/48	10/17/49	Signs & Stripe	19,785
0-4TC62	Santa Clara	68	Burl	Bet. Colma Cr. in SSF & Broadway in Burlingame	4.9	5/ 5/48	7/30/48	Armor Ct.	20,802
1-4TC82-F	San Francisco	68	B, SJs	Bet. Gish Road & Rte. 5	0.5	6/18/48	11/29/48	Restored with P.C.C.	75,639
		68	SSF	Bet. Augusta St. & 25th St.	1.3	5/11/49	8/28/51	Grade P.C.C. P.M.S. Std. UC & Sep. & R.C. UC, OC, & Ped. UC. & Signals.	*3,413,729

1-4TC96	San Mateo	68	SSF, F, Burl	Bet. Grand Ave. & Broadway	5.5	11/ 1/49	9/18/50	Roadside Planting	45,735
51-14TC31-F	San Francisco	68, 2	SF	Bet. 18th St. & Bryant St.	0.7	6/22/51	Underway	Stl. Br. (Por.)	*3,538,309
52-4TC24-F	San Mateo	68	E	Bet. S.C.L. of San Francisco & 0.6 Mi. S.	0.5	1/24/52	Underway	Grade	*175,098
52-14TC17-F	San Francisco	2	SF	On 13th St. Bet. Mission St. & Rte. 68		2/20/52	Underway	Misc. Facilities & R.C. Figs.	*550,835
52-4TC31-F	San Francisco	68	SF	Bet. Army St. & 17th St.	1.3	3/18/52	Underway	Grade, P.C.C. & P.M.S. on C.T.B., Stl. OC. & 3 Stl. Ped. OC's	*1,561,005
53-4TC4-F	San Mateo	68	SM, C	Bet. N.C.L. & 0.1 Mi. S. of S.C.L. of San Mateo	2.6	4/ 1/52	Underway	Grade, P.C.C. on C.T.S., R.C. OC, R.C. Ped. OC, Interchange On- Ramp & Off-Ramp, & Widen R.C. Br.	*1,780,068
53-4TC5	San Mateo	68	SSF, F, Mlbr, Burl	Bet. Colma Cr. & Broadway	5.1	4/ 1/52	Underway	Resurf. with P.M.S.	*270,615
52-4T21	San Mateo	68	SM	Bayshore Frwy. Bet. Dakota Ave. & Newbridge Ave.		4/21/52	Underway	Storm Drain	*66,731
52-14TC22-F	San Francisco	68	SF	On Bayshore Frwy. Bet. 16th St. & 7th St.	0.7	5/22/52	Underway	Portion, Stl. Br. & Ramps	*3,229,087
Total to 6/30/52.									\$24,131,417

NOTE: * opposite a contract indicates final cost figures not yet available.

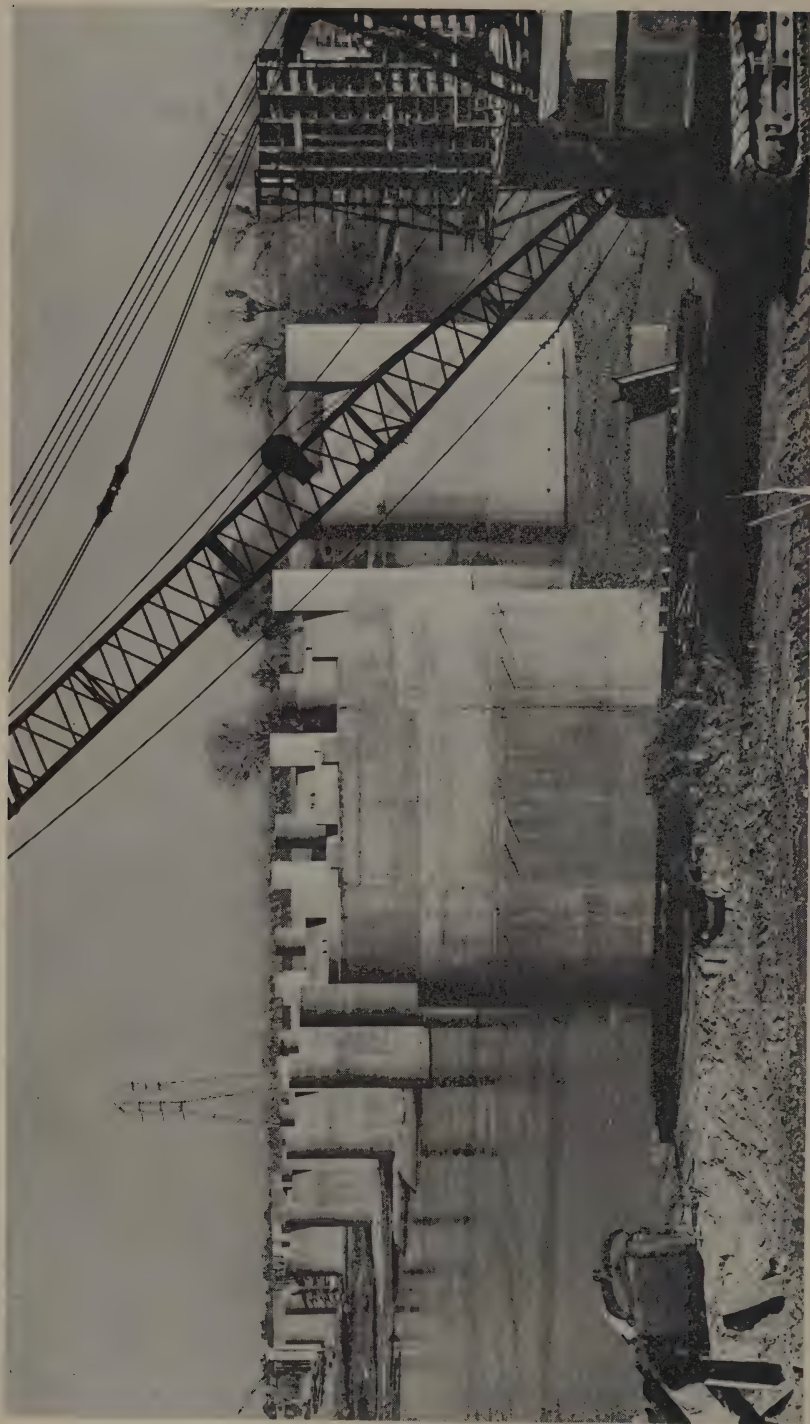


ERECTING STEEL FOR VIADUCT ON BAYSHORE FREEWAY in San Francisco, Vermont Street in foreground. Federal aid project.

NORTH SACRAMENTO FREEWAY

Contract number	County	Route	Section	Location	Miles	Award date	Completion date	Type of work	Construction cost
414TC4	Sacramento	3	B, NSac	Bet. American Riv. Br. & North Sacramento	---	6/20/41	12/22/42	Viaduct & Appr.	\$557,647
3TC8	Sacramento	3	B	At Intrs. of 12th & 16th Streets	---	1/14/44	12/21/44	Signals	9,144
3TC21	Sacramento	3	B	Bet. Sacramento Viaduct & 0.5 Mi. E. of Ben Ali	4.1	12/20/45	12/30/47	Grade, P.C.C., Sli. UP., Conc. OC., & 2 Conc. UC's.	1,909,257
3T56	Sacramento	3	B	North Sacramento Freeway	---	8/ 5/46	1/ 4/47	Signs & Stripes	8,021
3TC43	Sacramento	3	B	Bet. N. Sacramento Viaduct & Howe Ave.	---	11/13/47	12/14/48	Lights	32,179
3TC46	Sacramento	3	B	Bet. N. Sacramento Viaduct & 0.5 Mi. E. of Ben Ali	---	2/ 4/48	6/18/49	Landscape	86,930
3T88	Sacramento	3	B	North Sacramento Freeway	0.3	8/ 4/48	9/ 1/48	Curbs	6,380
0-3TC55	Sacramento	3	B	North Sacramento Freeway	3.7	12/ 3/48	4/28/49	Barrier Posts	10,502
0-3TC56	Sacramento	3	B	North Sacramento Off-Ramp	0.2	12/ 4/48	4/12/49	Grade & Surf.	13,682
1-3TTC4	Sacramento	3	B	E. End of N. Sacramento Viaduct	---	11/29/49	5/22/50	Illum. Sign Bridge	5,478
3T96	Sacramento	3	B	Bet. N. Sacramento Viaduct & 0.5 Mi. E. of Ben Ali	---	3/ 1/50	1/31/51	Guard Rail, Guide Posts, Reflectors & Signs	5,225
Total to 6/30/52.	---	---	---	---	---	---	---	---	\$2,654,446

NOTE: * opposite a contract indicates final cost figures not yet available.



CONCRETE PIERS for new freeway bridge at Elvas Crossing of American River, which will provide a new approach to Sacramento from the north. Federal aid project.



EARLY CONSTRUCTION OPERATIONS on Hollywood Freeway at Cahuenga Pass.
Hollywood Bowl lower left.

HOLLYWOOD FREEWAY

Contract number	County	Route	Section	Location	Miles	Award date	Completion date	Type of work	Construction cost
27V2	Los Angeles	2	LA	Cahuenga Blvd. E. Roadway at Mulholland Hwy. (State's Share of Cost)		10/16/39	6/12/40	Bridge	\$47,639
27V6	Los Angeles	2	LA	Cahuenga Blvd., Bet. Holly Crest Dr. & Fairfield Ave. (State's Share of Cost)		2/7/40	6/15/40	Grade, Pave, Strs.	398,390
27V10	Los Angeles	2	LA	Cahuenga Blvd., Holly Crest Dr. to Barham Blvd. (State's Share of Cost)		5/18/40	12/31/40	Grade, Pave, Strs.	334,330
14VC10-F	Los Angeles	2	LA	At Benton Way		2/4/46	9/4/47	R.C. OC	*169,453
7VC24	Los Angeles	2	LA	Bet. Diamond St. & Sunset Blvd.		10/24/46	5/7/47	St. Drain & Sanitary Sewer	198,701
14VC20-F	Los Angeles	2	LA	At Silver Lake Blvd.		11/14/46	4/16/48	R.C. OC	*461,036
14VC22-F	Los Angeles	2	LA	At Grand Ave.		12/9/46	1/29/48	R.C. OC	*259,000
7VC35-FP	Los Angeles	2	LA	Bet. Vineland Ave. & Barham Blvd.	1.8	5/28/47	2/9/49	Grade, P.C.C., A.C. & R.C. Sep. Struct.	1,735,111
14VC32-FP	Los Angeles	2, 165	LA	At Jet, Hollywood, Arroyo Seco & Harbor Freeways		6/24/47	8/6/49	4-Level R.C. Grade Sep. Struct.	*1,183,656
14VC37-F	Los Angeles	2	LA	On Hollywood Frwy. at Alvarado St.		10/20/47	10/1/48	R.C. UC	*362,651
14VC44-F	Los Angeles	2	LA	At Virgil Ave., Hoover St. & Rosemont Ave.		1/20/48	2/1/49	2 R.C. UC's & 1 R.C. OC	*807,267
14VC49-F	Los Angeles	2	LA	At Figueroa St.		2/27/48	10/15/49	4 R.C. UC's & 2 Ramp Grade Sep. Structs.	*1,059,511
7VC73	Los Angeles	2	LA	Bet. E. Edgeware Rd. & 0.05 Mi. E'ly	0.1	4/22/48	7/19/48	Grade & P.C.C.	*16,888
14VC53-F	Los Angeles	2	LA	At Vendome St. & Coronado St.		4/26/48	4/28/49	2 R.C. UC's	*250,969
0-14VC54-F	Los Angeles	2	LA	At Bonnie Brae St. & Beaudry Ave.		5/14/48	5/19/49	R.C. OC & UC	*452,214
7VC82	Los Angeles	2	LA	Bet. Vineland Ave. & Barham Blvd.		6/29/48	3/11/49	Lights	41,196
0-14VC64-F	Los Angeles	2	LA	At Spring St.		8/23/48	9/28/49	R.C. OC	*220,625
0-14VC65-FP	Los Angeles	2	LA	At Molares & Vermont Avenues		9/2/48	2/10/50	Conc. OC & UC	*999,005
0-14VC75	Los Angeles	2	LA	At Santa Monica Blvd. & Normandie Ave.		11/16/48	3/24/50	2 R.C. OC's & Apps.	*618,653
0-14VC95	Los Angeles	2	LA	Bet. Vineland Ave. & Barham Blvd.	1.8	11/19/48	8/5/49	Landscape	28,558
0-14VC76	Los Angeles	2	LA	At Western Ave.		12/15/48	6/30/50	Steel OC	*708,294
0-14VC77	Los Angeles	2	LA	At Glendale Blvd.		1/3/49	2/1/50	2 R.C. UC's & Apps.	*497,552
0-14VC79	Los Angeles	2	LA	Bet. Hill St. & Spring St.	0.1	1/18/49	1/29/51	Grade, P.C.C. & A.C. & 2 R.C. OC's	*1,038,278
0-14VC80	Los Angeles	2	LA	At Hollywood Dr.		2/17/49	4/25/50	R.C. UC	*821,552
0-14VC86	Los Angeles	2	LA	At E. Edgeware Road		3/1/49	12/5/49	R.C. OC	*123,342
0-14VC96-F	Los Angeles	2	LA	Bet. Normandie Ave. & Alexandria Ave.	0.2	4/8/49	7/1/49	Outer Highways	*32,120
0-14VC107	Los Angeles	2	LA	Boston St. Extension		4/14/49	6/10/49	Grade & P.M.S.	*17,406
0-14VC108	Los Angeles	2	LA	Bet. Virgil Ave. & Glendale Blvd.	1.6	6/9/49	2/23/51	Grade & P.C.C.	*1,437,403
0-14VC120-F	Los Angeles	2	LA	Bet. Glendale Blvd. & Grand Ave.	1.2	6/24/49	2/26/51	Grade & P.C.C.	*1,057,051
0-14VC127-F	Los Angeles	2	LA	Bet. Hollywood Crest Dr. & Vineland Ave.		10/11/49	11/26/51	Interchange Signs	4,286
1-14VC132	Los Angeles	2	LA	Inbound Lanes over Santa Monica Frwy. Outbound & Helmdrope Dr.		12/15/49	4/30/51	R.C. Sep. Struct.	*628,057
1-14VC39-F	Los Angeles	2	LA	Over Hollywood Frwy. at Hill St.		2/8/50	6/15/51	R.C. OC	*448,065
1-14VC158	Los Angeles	2	LA	Bet. Virgil Ave. & Glendale Blvd.	1.6	2/29/50	11/7/51	Signs, Stripes & Markings	10,852
1-14VC155-F	Los Angeles	2	LA	Bet. Western Ave. & Virgil Ave.	1.7	5/11/50	10/26/51	Grade, P.C.C. & R.C. Ped. UC	*1,562,998

7V159	Los Angeles	2	LA	1.2	5/18/50	8/31/51	Signs, Stripes, & Safety Devices.	5,400
1-14VC101-F	Los Angeles	2	LA	---	5/25/50	9/27/51	R.C. OC.	*333,308
1-14VC102-F	Los Angeles	2	LA	---	6/2/50	7/16/51	Grade, A.C. & R.C. OC	*327,370
1-7VC168	Los Angeles	2	LA	---	6/20/50	5/28/51	Lights & Illuminated Signs.	*152,578
1-7VC159	Los Angeles	2	LA	---	6/20/50	Underway	Pump Plant & St. Drains.	*132,255
1-14VC104-F	Los Angeles	2	LA	---	6/20/50	7/25/51	R.C. OC.	*335,980
51-14VC7	Los Angeles	2	LA	---	9/19/50	3/9/51	R.C. Ped. OC.	*35,360
51-14VC11-F	Los Angeles	2	LA	---	11/27/50	12/26/51	2 R.C. Brs.	*33,608
51-7VC25	Los Angeles	2	LA	---	12/13/50	10/10/51	Lights & Signs	*88,068
51-7VC26	Los Angeles	2	LA	0.4	12/22/50	9/20/51	Roadside Development	*1,575
7V165	Los Angeles	2	LA	---	1/3/51	1/31/52	Signs, Stripes, & Safety Devices	*4,442
51-7VC13	Los Angeles	2	LA	2.3	1/11/51	1/10/52	Roadside Development.	*55,435
51-7VC29	Los Angeles	2	LA	---	1/19/51	2/7/52	R.C. UC	*318,194
51-7VC34-F	Los Angeles	2	LA	0.5	1/26/51	Underway	Grade, P.C.C. & A.C. & R.C. OC.	*1,094,626
51-14VC14-F	Los Angeles	2	LA	---	2/20/51	Underway	R.C. OC.	*349,402
51-14VC18-F	Los Angeles	2	LA	---	3/20/51	5/12/52	R.C. UC.	*318,890
51-7VC42-P	Los Angeles	2	Hill St.	---	4/2/51	2/21/52	Grade & A.C.	*239,714
51-7VC51	Los Angeles	2	LA	0.5	5/23/51	6/25/52	Plant Ground Cover	*40,187
51-14VC19-F	Los Angeles	2	LA	---	5/31/51	Underway	Grade, P.C.C. on I.B.M. & 3 R.C.	
51-14VC21-F	Los Angeles	2	LA	0.6	---	---	2 R.C. Brs.	*1,750,318
52-7VC15	Los Angeles	2	LA	---	6/20/51	Underway	Lights & Signs	*964,952
52-7VC24-F	Los Angeles	2	LA	0.7	7/27/51	Underway	Grade, P.C.C. on C.T.S., Ret. Walls & Pump Plant	*38,435
---	---	---	---	---	12/28/51	Underway	Lights & Signs	
52-7VC27	Los Angeles	2	LA	---	1/16/52	Underway	Lights & Signs	*1,461,648
52-7VC32-F	Los Angeles	2	LA	1.4	2/14/52	Underway	Grade, P.C.C. on C.T.S., 3 R.C. Brs., R.C. Ped. UC. & Extend 2 R.C. Ped. UC's.	*62,046
52-7VC33	Los Angeles	2	LA	---	---	---	Lights & Signs	*2,497,381
52-7VC35	Los Angeles	2	LA	---	3/12/52	Underway	Signs, Stripe & Markings	*150,303
52-7VC42	Los Angeles	2	LA	2.0	4/21/52	Underway	Roadside Development.	*15,000
---	---	---	---	---	6/27/52	Underway	---	*111,441
Total to 6/30/52.	---	---	---	---	---	---	---	\$28,689,035

NOTE: * opposite a contract indicates final cost figures not yet available.



AERIAL VIEW OF HOLLYWOOD FREEWAY under construction, looking westerly from Western Avenue to Cahuenga Pass. Federal aid project.



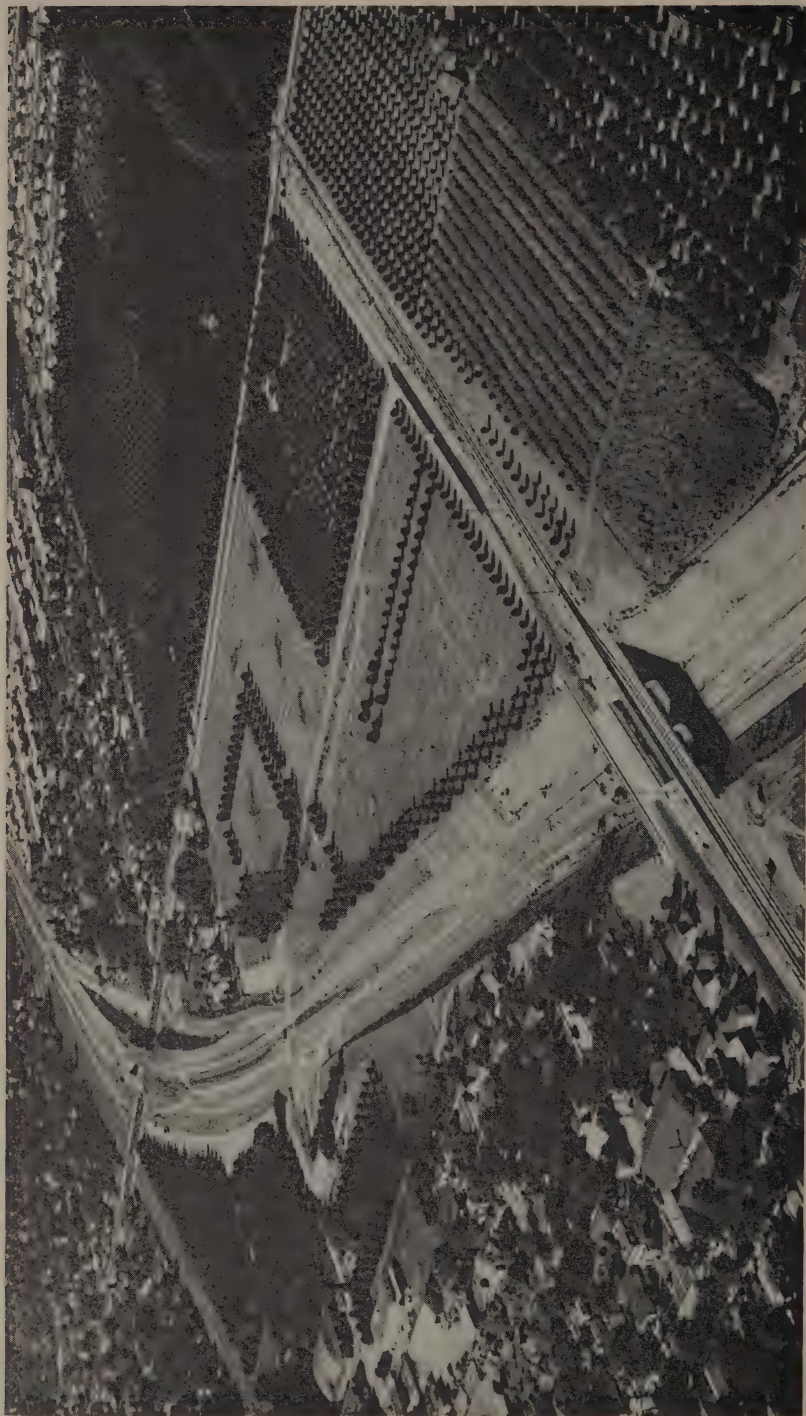
AERIAL VIEW OF PORTION OF SANTA ANA AND HOLLYWOOD FREEWAYS
showing excavation for Alameda Street Overcrossing. Federal aid project.

SANTA ANA FREEWAY

Contract number	County	Route	Section	Location	Miles	Award date	Completion date	Type of work	Construction cost
14VC11	Los Angeles	2	L A	At Fourth St.	---	1/ 5/46	6/26/47	R.C. OC.	\$144,027
14VC8	Los Angeles	2	L A	At Seventh St.	---	1/11/46	10/1/47	R.C. OC.	270,763
7VC16	Los Angeles	2	L A	Bet. Kearney & Soto Sts.	1.6	1/14/46	12/11/47	Grade, P.C.C. & A.C.	1,495,108
14VC9	Los Angeles	2	L A	Over Ramp 4 of Ramona Freeway	---	3/29/46	8/11/47	2 R.C. Sep. Struct. & Ret. Walls	148,801
7VC21	Los Angeles	2	L A	Bet. Soto St. & Indiana St.	---	7/15/46	4/1/47	Grade, St. Drains & Sanitary Sewers	402,018
14VC15	Los Angeles	2	L A	At First St.	---	7/19/46	5/12/47	R.C. OC.	182,515
14VC14	Los Angeles	2	L A	At Boyle Ave.	---	7/23/46	8/8/47	R.C. OC.	216,076
14VC23	Los Angeles	2	L A	At Lorena Ave.	---	12/11/46	10/24/47	R.C. OC.	151,568
14VC24	Los Angeles	2	L A	At Olympic Freeway	---	12/30/46	1/30/48	R.C. OC.	319,888
14VC25	Los Angeles	2	L A	At Esperanza St. & Indiana St.	---	12/31/46	1/30/48	R.C. OC. & UC.	289,442
7VC28	Los Angeles	2	L A	Bet. Kearney & Soto Sts.	1.5	2/ 4/47	2/16/48	Landscaping	62,091
14VC28	Los Angeles	2	L A	At Soto St.	---	3/ 6/47	1/ 7/48	R.C. UC.	194,788
14VC30	Los Angeles	2	L A	At Euclid Ave. & Marietta St.	---	4/29/47	2/26/48	2 R.C. UC's	273,439
7VC37	Los Angeles	2	L A	Bet. Aliso & Kearney Sts.	---	5/13/47	1/12/48	Grade, P.C.C. & A.C.	205,786
7VC44	Los Angeles	2	L A	Bet. Aliso St. & Kearney St.	---	7/11/47	4/23/48	Landscaping	11,066
7VC59-F	Los Angeles	2	L A, D	Bet. Soto St. & Eastman Ave.	2.0	2/13/48	4/ 4/49	Grade, P.C.C. & A.C.	1,142,913
0-14VC67-F	Los Angeles	166	L A	Bet. La Verne Ave. & Eastland Ave.	0.9	9/15/48	4/17/50	Grade, P.C.C., 2 Conc. & 1 Std. Struct.	1,493,824
0-7VC91	Los Angeles	2	L A, D	Bet. Aliso St. & Eastman Ave.	---	9/27/48	5/24/49	Lights.	120,773
0-7VC99	Los Angeles	2	L A, D	Bet. Soto St. & Eastman Ave.	2.0	1/ 7/49	12/ 9/49	Landscaping	*51,034
0-7VC106	Los Angeles	166,	A, A	On Santa Ana Frwy. at La Verne & Eastland Aves.	---	2/ 3/49	4/21/50	Signals & Lights	100,205
7V142	Los Angeles	167	L A, D	Bet. Aliso St. & Eastman Ave.	---	3/ 1/49	5/ 3/49	Signals & Lights	6,018
0-14VC84	Los Angeles	2	L A	At Los Angeles Street	---	4/23/49	8/ 3/50	2 R.C. OC's	*495,658
1-14VC93-F	Los Angeles	2	L A	At North Main St.	---	9/16/49	2/ 9/51	2 R.C. OC's	*615,105
1-7VC141-F	Los Angeles	174	B	Bet. Roscorans Ave. & Orange Co. Line	3.5	1/ 3/50	12/29/50	Grade, A.C. On C.T.B. & 3 R.C. Brs.	*751,904
7V154	Los Angeles	166	A	Bet. La Verne Ave. & Eastland Ave.	0.9	1/12/50	5/31/50	Signs, Stripes & Markings	7,320
1-7VC143	Los Angeles	174	B	Bet. Roscorans & Valley View on Firestone Blvd.	---	1/23/50	12/29/50	Signals & Lights	*26,452
1-7VC148-F	Orange	174	A	Bet. Los Angeles Co. Line & 0.2 Mi. SE. of Euclid Ave.	5.0	3/29/50	1/23/51	Grade & A.C. on C.T.B.	*580,588

1-7VC146-F	Orange	174	A, Ana	Bet. 0.2 Mi. SE'ly. of Euclid Ave. & Rte. 2	2.9	3/31/50	2/16/50-	Grade & A.C. on C.T.B.	*374,536
1-14VC99	Los Angeles	166	A	Bet. Gage Ave. & Tweedy Lane	0.6	4/28/50	6/20/51	P.M.S., Std. Br. & Apps.	*281,761
51-7VC15	Orange	174	Ana, A	Bet. Lincoln Ave. & Los Angeles St.	2.3	8/22/50	3/ 7/51	Signals & Lights	*42,064
51-7VC17-F	Los Angeles	166	A	Bet. Augusta Ave. & 0.1 Mi. E'ly. of Rio Hondo	0.6	9/29/50	Underway	Grade, P.C.C. on C.T.S. P.M.S. on U.R.B. & 5 R.C. Struts. (2 Ped. OC's, 1 UC, & 2 OC's.)	*1,741,634
51-7VC22	Los Angeles	166	A	Bet. La Verne Ave. & Eastland Ave.	1.1	11/17/50	6/ 4/51	Roadside Development	*23,538
51-7VC23-F	Los Angeles	2, 166	D, A	Bet. Eastman Ave. & 0.1 Mi. W'ly. of Atlantic Blvd.	1.5	11/27/50	Underway	Grade, P.C.C. on I.B.M., & 2 R.C. OC's, & 1 R.C. Ped. UC.	*1,183,816
51-7VC41-F	Los Angeles	166	A	Bet. 0.2 Mi. SE'ly. of Washington Blvd. & Todd Ave.	2.8	3/ 9/51	Underway	Grade, P.C.C. on C.T.S. over I.B.M., P.M.S. on U.R.B., R.C. UC. & Ped. OC. & Std. UP	*1,546,151
51-7VC48	Los Angeles	2, 166	D, A	Bet. Eastman Ave. & La Verne Ave. & Bet. Eastland Ave. & Todd Ave.	2.0	4/25/51	Underway	Lights & Signs	*73,637
7V178	Los Angeles	2	LA	Bet. Alameda & Aliso Sts. & Los Angeles Riv.	2.8	5/21/51	Underway	Storm Drains	*1,148,700
51-14VC22-F	Orange	174, 2	SA, C	Bet. Broadway in Santa Ana & 1st St.	0.3	6/22/51	Underway	Grade, P.C.C. on C.T.S. & 2 R.C. UC's, 2 R.C. OC's, R.C. Ped. UC., Std. OC. & Std. UP	*2,656,258
52-7VC14	Orange	2, 174	SA, C, SA	Bet. Broadway & First St.	1.2	8/ 3/51	Underway	Lights & Signs	*108,392
52-7VC17-F	Los Angeles	166	A	Bet. Todd Ave. & 0.2 Mi. SE'ly. of Lakewood Blvd.	2.0	8/20/51	Underway	Grade, P.C.C. on C.T.S. R.C. & Std. Br. R.C. Ped. UC. Sep., UC. & OH.	*2,701,191
52-7VC21	Los Angeles	166	A	Todd Ave. & Lakewood Blvd.	0.3	10/ 8/51	Underway	Signals, Lights & Signs	*20,607
52-7V25	Los Angeles	2	LA	Bet. Grand Ave. & Los Angeles St.	0.3	1/29/52	Underway	Signs & Stripes	*5,731
52-7V26	Los Angeles	166	A	Bet. Todd Ave. & Lakewood Blvd.	0.3	2/13/52	Underway	Signs & Stripes	*8,500
52-14VC17-F	Los Angeles	2	LA	Bet. Los Angeles St. & Lyon St.	1.2	3/24/52	Underway	Grade, P.C.C. & A.C., 2 R.C. UP's, & 3 R.C. Retaining Walls	*1,463,933
52-7VC36	Los Angeles	2	LA	Bet. Los Angeles St. & Lyon St.	1.2	4/ 1/52	Underway	Lights & Signs	*37,527
52-7VC37	Orange	174, 2	A, D	Bet. 0.25 Mi. W'ly. of Los Angeles St. & Orange-wood Ave.	1.2	4/ 1/52	Underway	Grade, P.C.C. P.M.S., R.C. OC. & R.C. Grade Sep.	*846,102
52-7V32	Orange	2, 174	SA, C	Bet. Broadway & First St.	1.2	4/15/52	Underway	Signs, Stripes & Markings	*9,700
53-14VC2-F	Los Angeles	166	A	Across San Gabriel Riv., 2 Mi. E. of Downey	1.2	4/18/52	Underway	R.C. Br. & App. Emb.	*504,471
	L.A. Ora.			Various Locations	1.2	4/18/52	Underway	Signals & Lights Under Various Conditions	*76,500
Total to 6/30/52.									\$24,685,419

NOTE: * opposite a contract indicates final cost figures not yet available.



SANTA ANA FREEWAY in City of Santa Ana. Lincoln Avenue and A. T. & S. F. Railway crossings in foreground, Seventeenth Street in background. Federal aid project.



AERIAL VIEW OF SANTA ANA FREEWAY showing excavation for Alameda Street. Union Station in background. Federal aid project.

RAMONA FREEWAY

Contract number	County	Route	Section	Location	Miles	Award date	Completion date	Type of work	Construction cost
67XC5	Los Angeles	26	D	Bet. Evergreen Ave. & Atlantic Blvd.	3.8	2/27/33	11/26/34	Grade, P.C.C. & A.C.	\$366,335
67XC6	Los Angeles	26	LA	Bet. State St. & Fickett St.	0.6	12/29/33	3/5/35	Grade & P.C.C.	86,395
614XC5	Los Angeles	26	LA	At Cornwell St.	---	1/3/34	5/17/34	R.C. & Timber Br.	26,169
614XC6	Los Angeles	26	LA	At Lord St.	---	1/9/34	6/6/34	R.C. & Timber Br.	25,511
614XC7	Los Angeles	26	LA	At State St.	---	1/23/34	6/22/34	R.C. Bridge	28,339
614XC8	Los Angeles	26	LA	At Marengo St.	---	1/31/34	9/19/34	Reconstruct. Br.	43,840
67XC7	Los Angeles	26	LA	Bet. State St. & Mission Rd.	---	2/13/34	4/15/35	Grade & P.C.C.	211,941
67XC13	Los Angeles	26	LA, D	At Garvey Ave.	1.0	1/7/35	4/26/35	Water Pipe Lines	11,441
67XC18	Los Angeles	26	LA, D	Bet. Mission Rd. & Atlantic Blvd.	---	4/15/35	8/23/35	Plant Trees & Shrubs	13,531
27X29	Los Angeles	26	LA, D	Aliso St. at Mission Rd. (State's Share of Cost)	---	4/20/40	4/29/41	Grade Sep.	496,295
414XC4-P	Los Angeles	26	LA	At Pomeroy, Cornwell & Soto Sts.	---	7/10/41	6/3/43	3 R.C. Bridges	280,164
47XC5	Los Angeles	26	LA, D	Bet. Macy St. & Indiana St.	2.0	12/11/41	12/20/43	Grade & A.C. & P.C.C.	280,202
47X44	Los Angeles	26	LA	Aliso St. Viaduct (State's Share of Cost)	---	6/29/42	5/18/43	Walls & Struct. Footings	123,900
7XC16	Los Angeles	26	LA	Bet. Macy St. & Indiana St.	1.9	4/26/46	7/22/46	Fence	28,773
7VC58	Los Angeles	26	LA	Bet. Macy St. & Indiana St.	1.8	2/13/48	8/18/48	Landscape	43,635
1-7VC130-F	Los Angeles	26	LA, D	Bet. Evergreen Ave. & E. of Helen Drive	---	9/1/49	5/1/51	Grade, P.C.C. P.M.S. 3 R.C. Bns., & 2 R.C. Ped. UC's extended	*1,368,565
1-7VC147	Los Angeles	26	LA, D	Bet. Macy St. & Helen Drive	---	2/9/50	4/13/51	Signs & Lights	*40,952
7V157	Los Angeles	26	LA, D	Bet. Evergreen Ave. & Helen Dr.	---	3/23/50	8/21/51	Signs Stripes & Signals	7,584
1-7VC156-F	Los Angeles	168	C, EMte	Bet. Garvey Ave. & Valley Blvd.	1.4	5/19/50	10/4/51	Grade, P.C.C. & P.M.S. on C.T.B., 1 Stl. UP. & 2 R.C. Bns.	*436,000
51-7VC38-F	Los Angeles	26	Alb, D, LA	Bet. 0.2 Mi. E. of Helen Dr. & Hellman Ave.	1.5	2/9/51	Underway	Grade, P.C.C. on C.T.S. P.M.S. on L.B.M. Stl. UP. & Ped. OC., R.C. OC. & R.C. & Stl. UC.	*1,957,924
51-14VC20	Los Angeles	26	D, LA	On Murphy St. Bet. Eastern Ave. & Ramona Frwy.	0.5	5/31/51	Underway	P.M.S. on L.B.M. Stl. Br. & Ramp	*207,398
51-7VC50-F	Los Angeles	26	Alb	Bet. Hellman Ave. & 8th St.	0.9	6/28/51	Underway	Grade, P.C.C. on C.T.S. P.M.S. on L.B.M. Stl. Ped. OC., & 2 R.C. UCs.	*1,422,107

51-7VC54	Los Angeles	26	D, LA, Alh, MonP, E	Bet. Helen Dr. & 8th St.		6/28/51	Underway	Lights & Signs.	*91,899
52-7VC19	Los Angeles	26		Bet. 8th St. & 0.1 Mi. E. of Jackson Ave.	1.7	9/25/51	Underway	Grade, P.C.C., P.M.S., R.C. Ped. UC., 3 R.C. & Std. UC's. & UPS., & 1 R.C. & Std. OH.	*2,598,007
52-14VC13	Los Angeles	26	Alh	Over Ramona Frwy. & P.E. Ry. Tracks at Camp- bell Ave.		11/27/51	Underway	Std. & R.C. Ped. OC.	*86,114
52-14VC14	Los Angeles	26	LA	Over Ramona Frwy. & P.E. Ry. Tracks at Ever- green Ave.		1/ 4/52	Underway	Std. & R.C. Ped. OC.	*48,886
52-7VC30-F	Los Angeles	26	E	Bet. 0.1 Mi. E. of Jackson Ave. & Rosemead Blvd. (Por.)	1.7	1/28/52	Underway	Grade, P.C.C., P.M.S., Std. Br., R.C. & Std. Br., 3 R.C. & Std. UC's. & UP's, & R.C. Grade Sep.	*2,534,549
52-7V27	Los Angeles	26	Alh	Bet. Eighth St. & Jackson Ave.		2/26/52	Underway	Signs, Stripes, Etc.	*6,400
52-7V30	Los Angeles	26	E	Bet. Jackson Ave. & Rosemead Blvd.		3/18/52	Underway	Signs & Stripes	9,800
52-7V34	Los Angeles	26	MonP	Bet. Hitchcock Ave. & New Ave.		4/15/52	Underway	Safety Lights	*7,005
53-14VC5-F	Los Angeles	26	Pom, Cla	On Ramona Freeway	0.5	6/ 4/52	Underway	Widen A.C., & 7 R.C. Brs.	*1,280,222
53-14VC6-F	San Bernardino	26	C, Upl	Bet. Los Angeles Co. Line & Rte. 192		6/20/52	Underway	8 R.C. Bridges.	*790,081
Total to 6/30/52.									\$14,939,964

NOTE: * opposite a contract indicates final cost figures not yet available.

NOTE: Completion Date Shown for Cooperative Projects (State's Share of Cost) is Date when Day Labor Work Order was approved and State's obligation completed.



ON RAMONA FREEWAY showing grade separation structures for freeway, frontage roads and Pacific Electric Railway crossings over Rosemead Boulevard. Federal aid project.



RAMONA FREEWAY near Campbell Avenue in Alhambra during construction showing pedestrian overcrossings. Atlantic Avenue in background. Federal aid project.

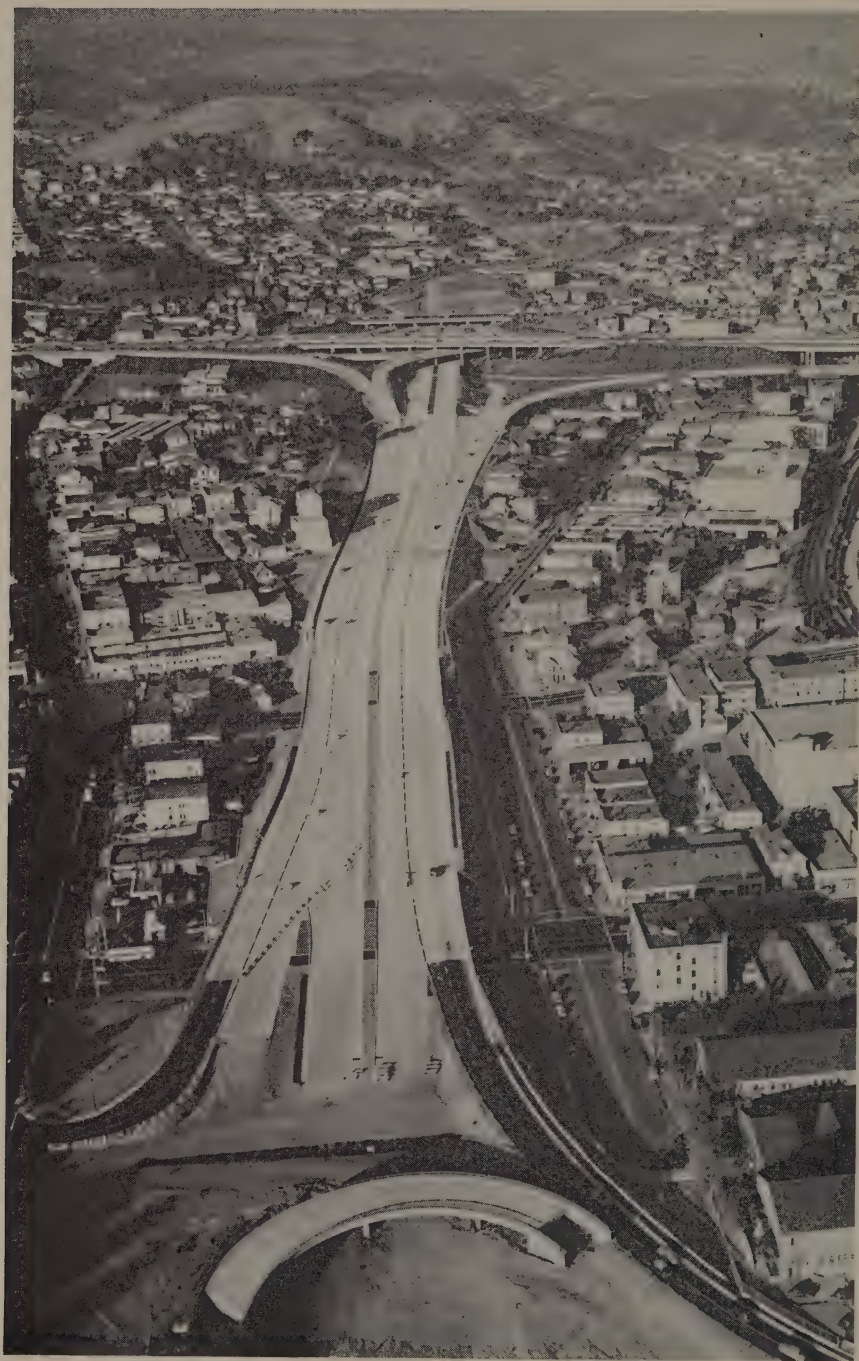
ARROYO SECO PARKWAY

Contract number	County	Route	Section	Location	Miles	Award date	Completion date	Type of work	Construction cost
014XC4	Los Angeles	205	SPas	Bet. Arroyo Seco Channel & Grand Ave.	0.2	3/ 9/38	11/15/38	2 Brs., Subway & Apps.	\$124,996
07XC9	Los Angeles	205	SPas	Bet. Arroyo Dr. & Meridian Ave.		6/10/38	8/10/38	Sewer System.	7,260
07XMC3	Los Angeles	205	SPas, PAs	Bet. Fair Oaks Ave. in SPas & Glenarm St. in Pasadena.	0.8	7/13/38	1/10/39	Grade, P.C.C. & A.C. Pmnt.	126,322
014XC8	Los Angeles	205	LA	At Ave. 60.		7/20/38	3/ 9/39	Extend Bridge.	65,062
07XC16	Los Angeles	205	LA, SPas	Bet. Hough St. & Meridian Ave.	0.8	11/ 7/38	8/ 9/39	Grade, P.C.C., A.C. Pmnt. & 2 R.C. Brgs.	187,836
07XC21	Los Angeles	205	LA	At Ave. 43 (State's Share of Cost)		11/14/38	10/25/38	Br., Substructure.	29,409
014XC23	Los Angeles	205	SPas	Near Hough St.		4/ 7/39	1/11/40	R.C. Bridge.	146,007
07XC33	Los Angeles	205	LA	Bet. Ave. 22 & Ave. 50		4/13/39	8/21/41	Compact Emb.	14,159
07XC39	Los Angeles	205	LA	On Arroyo Seco Parkway (State's Share of Cost)		5/13/39	4/ 9/40	Storm Drains & Br. Substructures.	112,888
014XC25	Los Angeles	205	LA	At Ave. 43.		5/29/39	2/ 5/40	R.C. Bridge.	51,856
014XC26	Los Angeles	205	LA	Bet. Ave. 50 & Ave. 58.		6/29/39	8/ 1/40	Grade, P.C.C. & A.C. Pmnt. & 4 R.C. Bridges.	215,748
27XC2	Los Angeles	205	LA	Bet. Ave. 36 & LA Riv. (State's Share of Cost)		8/10/39	8/ 3/39	Channel Work.	100,000
214XC3	Los Angeles	205	LA	At Ave. 26.		9/25/39	4/12/40	Extend R.C. Bridge.	46,409
27XC8	Los Angeles	205	LA	Near Pasadena Ave. (State's Share of Cost)		9/28/39	2/ 7/40	Retaining Walls.	4,725
27XC1	Los Angeles	205	SPas	Gravella St. Bet. Meridian Ave. & Fairview Ave.	0.1	11/ 6/39	1/11/40	Grade & P.M.S.	4,067
27XC12	Los Angeles	205	LA	Near A.T. & S.F. Br. N. of Ave. 60 (State's Share of Cost)		11/15/39	11/17/39	Storm Drain.	6,000
27XC13	Los Angeles	205	LA	At Marmon Way (State's Share of Cost)		11/15/39	6/ 5/40	Bridges.	35,970
27XC18	Los Angeles	205	LA, SPas	Bet. Ave. 58 & Fairview Ave. (State's Share of Cost)		1/10/40	7/ 8/40	Grade & A.C. & P.C.C. Pmnt.	166,602
214XC5	Los Angeles	205	SPas	Under A.T. & S.F. & U.P. RR Tracks near Fremont Ave.		3/ 4/40	2/ 3/41	2 Grade Seps. & Apps.	156,558
214XC4	Los Angeles	205	LA	Near Ave. 35.		3/25/40	12/21/40	Grade Sep. Superstruct.	131,816
27XC26	Los Angeles	205	LA	Bet. Ave. 40 & Ave. 50 (State's Share of Cost)		3/26/40	6/19/40	Grade, Pave. & Strs.	101,931
214XC6	Los Angeles	205	SPas	At Meridian Ave.		4/ 9/40	8/13/40	R.C. Br. & Apps.	23,766
214XC8	Los Angeles	205	LA	At Ave. 60.		4/25/40	8/15/40	R.C. Br. & Apps.	19,791
27XC32	Los Angeles	205	LA, SPas	Bet. San Fernando Rd. & Glenarm St.	6.1	5/15/40	5/11/42	Landscape.	97,628
27XC3	Los Angeles	205	LA	At Cypress Ave. (State's Share of Cost)		5/18/40	5/20/40	Fed. Crossing.	1,800
27XC27	Los Angeles	205	LA	Bet. Ave. 35 & Ave. 40 (State's Share of Cost)		6/ 6/40	11/ 1/40	Grade & P.C.C. & A.C. Pmnt.	101,861
27XC35	Los Angeles	205	LA	Bet. Ave. 35 & Ave. 26 (State's Share of Cost)		6/13/40	11/20/40	Grade, Pave. Strs.	80,175
214XC10	Los Angeles	205	SPas	Under P.E. Ry. & Fair Oaks Ave.		6/13/40	12/27/40	Undercrossing.	67,637
27XC37	Los Angeles	205	LA	Bet. Ave. 26 & Ave. 22 (State's Share of Cost)		6/29/40	11/ 1/40	Grade & P.C.C. & A.C. Pmnt.	80,265
27XC4	Los Angeles	205	SPas	Bet. Grand & Fair Oaks Aves.	0.7	9/ 4/40	1/15/41	Grade & P.C.C. & A.C. Pmnt.	85,788
214XC16	Los Angeles	165	LA	Over N. Figueroa St. at Park Row.		4/ 8/41	11/10/41	R.C. Bridge.	33,042
214XC18	Los Angeles	165	LA	Over N. Figueroa St. at Castelar St.		4/29/41	5/29/42	Steel Bridge.	63,661
214XC20	Los Angeles	165	LA	At N. Figueroa St. & Bishops Rd.		7/ 7/41	4/28/42	2 Grade Seps.	54,872

47X4	Los Angeles	165	LA	Bet. Adobe St. & Ave. 22 on N. Figueroa St.	7/19/41	12/31/42	Grade & Pave.	662,513
414XC3	Los Angeles	165	LA	Across Amador St. & Solano Ave.	7/29/41	6/ 8/42	2 R.C. Bridges	60,765
414XC2	Los Angeles	165	LA	Across LA Riv. & S.P. RR. at Figueroa St.	9/15/41	9/ 2/43	Br., R.C. Superstruct.	266,038
414XC10	Los Angeles	165	LA	Over LA Riv. & S.P. RR. & LA Rwy. at Figueroa St.	3/ 9/43	6/14/45	Portions, R.C. Superstruct.	19,277
14XC2	Los Angeles	165	LA	Across LA Riv. & S.P. RR. & LA Rwy. at Figueroa St.	7/23/43	3/24/44	Br. & Apps. (Por.)	153,781
7XC5	Los Angeles	165	LA	On Figueroa St. Bet. Adobe St. & Riverside Drive.	12/29/43	5/25/44	Misc. Work	37,956
7XC21	Los Angeles	165	LA	Bet. College St. & Bernard St.	8/16/46	4/22/47	Grade & P.C.C.	*311,282
14XC19-F	Los Angeles	165	LA	At Sunset Blvd.	1/28/47	5/14/48	R.C. OC.	*52,316
7XC30-F	Los Angeles	165	LA	Bet. College St. & Bernard St.	3/27/47	7/28/47	Landscape	*20,019
7XMC12	Los Angeles	165	LA	Bet. Bernard St. & Ave. 22	7/23/47	3/19/48	Grade, P.M.S. & P.C.C.	*281,920
7XMC13	Los Angeles	165	LA	Bet. Bernard St. & Ave. 22	9/22/47	6/25/48	Landscape	19,599
14VC55-F	Los Angeles	165	LA	At Alpine St.	5/14/48	12/21/48	R.C. OC.	*115,738
0-7VCI00	Los Angeles	205	LA, SPas	On Arroyo Seco Parkway	3.2	1/ 7/49	Chain Link Fence.	26,120
0-7VCI102	Los Angeles	165	LA	Bet. Bartlett St. & Figueroa Terrace.	1/12/49	8/19/49	Grade & A.C.	*114,329
0-7VCI05-P	Los Angeles	205	Pas, SPas	At Fair Oaks Ave. & State St.	1/20/49	3/25/49	Grade & P.M.S. Off-ramp.	26,952
0-7VCI16	Los Angeles	205	SPas	Orange Grove Ave. & Fair Oaks Ave.	5/21/49	7/ 6/49	Lights.	6,633
7V132	Los Angeles	205	LA	On Arroyo Seco Parkway	6/26/49	12/28/49	Safety Devices	43,546
7V150	Los Angeles	165	LA, Pas					
51-14RVC1	Los Angeles	205	LA, SPas	Bet. Castelar St. & Bridwell Ave. OC.	8/23/49	12/21/50	Refuge Areas.	55,331
51-7VC27	Los Angeles	165	LA	Near Avenue 58.	9/29/50	7/ 6/51	Prestressed Conc. Ped. Bridge.	31,877
7V168	Los Angeles	165	LA, SPas, Pas	Bet. College St. & Glenarm St.	12/22/50	7/12/51	Signs & Lights	*55,884
7V168	Los Angeles	205	LA, SPas, Pas	Bet. College St. & Glenarm St.	1/30/51	Underway	Signals.	*6,000
Total to 6/30/52.								\$5,383,783

NOTE: * opposite a contract indicates final cost figures not yet available.

NOTE: Completion Date Shown for Cooperative Projects (State's Share of Cost) is Date when Day Labor Work Order was approved and State's obligation completed.



FIRST COMPLETED SECTION OF HARBOR FREEWAY between four-level structure and Third Street Ramps in downtown Los Angeles. Federal aid project.

HARBOR FREEWAY

Contract number	County	Route	Section	Location	Miles	Award date	Completion date	Type of work	Construction cost
14VC47-F	Los Angeles	165	LA	At Temple St.		10/14/47	12/16/48	R. C. Undercrossing	*\$381,026
7V137	Los Angeles	165	LA	Bet. 7th St. & Wilshire Blvd. (State's Share of Cost)		11/17/48		Connections	120,000
1-14VC35	Los Angeles	165	LA	At 1st & 2d Streets		11/18/49	1/22/51	2 R.C. UC's	44,643
1-14VC103-F	Los Angeles	165	LA	At 3d Street		6/10/50	8/16/51	2 R.C. Bridges	*\$78,862
51-14VC4-F	Los Angeles	165	LA	At 4th Street		8/24/50	4/1/52	R.C. Br.	*\$71,123
51-14VC12-F	Los Angeles	165	LA	At 5th St. & at 6th St.		12/8/50	Underway	5 R.C. OC's & 2 R.C. Ped. UC's	*\$1,010,780
51-14VC17-F	Los Angeles	165	LA	At Wilshire Blvd.		3/27/51	Underway	R.C. Bridge	*\$32,757
52-7VC10-F	Los Angeles	165	LA	Bet. 4th St. & Temple St.	0.6	6/14/51	Underway	Grade & P.C.C.	*\$70,243
52-7VC12-P	Los Angeles	165, 2	LA	Bet. Temple St. & 3d St. & Bet. Grand Ave & Los Angeles St.					
52-7V13	Los Angeles	165	LA	Bet. Temple St. & 4th St.		6/28/51	Underway	Lights & Signs	*\$114,516
52-14VC8-F	Los Angeles	165	LA	At 7th, 8th, & 9th Sts.		9/24/51	Underway	Signs & Stripes	*\$7,000
53-14VC4-F	Los Angeles	165, 173	LA	At Olympic Blvd.	0.1	10/19/51	Underway	R.C. OC, 3 R.C. UC's, & 2 R.C. Ramp Seps.	*\$1,227,536
Total to 6/30/52						5/20/52	Underway	R.C. Br. & Reconst. City Sts.	*\$32,340
									\$5,680,826

NOTE: * opposite a contract indicates final cost figures not yet available.

LOS ANGELES RIVER FREEWAY

Contract number	County	Route	Section	Location	Miles	Award date	Completion date	Type of work	Construction cost
51-7VC49-F	Los Angeles	167	LBch	Bet. Rte. 60 & 223d St.	2.5	5/31/51	Underway	Grade, P.C.C. on C.T.S. over I.R.M. P.M.S. on U.R.B. over I.R.M. & R.C. Grade Sep.	*\$1,507,323
51-7VC55	Los Angeles	167	LBch	Bet. State St. & 223d St.		6/28/51	Underway	Signs & Lights	*\$71,938
52-7VC15	Los Angeles	167	A	Across Del Amo Blvd. & Compton Cr. about 0.2 Mi. W. of Long Beach C.L.		1/15/52	Underway	R.C. UC. & R.C. Br. & Apps.	*\$41,124
52-14VC18-F	Los Angeles	167	LBch	At Artesia St.		4/18/52	Underway	R.C. OC. & Apps.	*\$32,270
52-14VC20-F	Los Angeles	167	A	Bet. 0.2 Mi. S. of Dominguez St. & Del Amo Blvd.	0.3	5/26/52	Underway	Grade, P.C.C. on C.T.S. & 2 Sid. UP's.	*\$1,428,978
	Los Angeles	167, 174	A, B	Various Locations	0.7		Underway	Signals & Lights Under Various Conditions	*\$44,000
Total to 6/30/52									\$1,025,633

NOTE: * opposite a contract indicates final cost figures not yet available.

CABRILLO FREEWAY

Contract number	County	Route	Section	Location	Miles	Award date	Completion date	Type of work	Construction cost
11AXC3	San Diego	77	SD	Bet. Mission Valley Rd. & Linda Vista Housing Project	1.1	2/28/44	3/20/45	Grade, P.C.C. Pav. & P.M.S.	\$96,772
14AXC1	San Diego	77	SD	At San Diego Riv. in San Diego		3/22/44	1/26/45	R.C. Bridge	163,298
14XC6	San Diego	77	SD	At Date St., Quince St., & Upas St.		3/7/47	3/7/47	3 R.C. OC's	175,916
14XC7	San Diego	77	SD	Across San Diego River		12/5/45	12/11/46	R.C. Bridge	193,379
11XC9	San Diego	77	SD	Bet. A St. 0.4 Mi. S. of Mission Valley Rd.	2.9	1/11/46	3/13/48	Grade & P.C.C.	1,506,956
14XC9	San Diego	77	SD	Over Balboa Pkwy. at Richmond St.		2/20/46	2/25/47	R.C. OC	70,152
11XC10	San Diego	77	SD, A	Bet. 0.4 Mi. S. of Mission Valley Rd. & 0.5 Mi. N. of City Limits					
14XC13	San Diego	77	SD	At Friar's Rd.	4.1	5/15/46	4/8/48	Grade & P.C.C.	1,224,610
14XC15	San Diego	77	SD	At University Ave.		6/25/46	6/12/47	Steel OC	63,889
14XC14	San Diego	77	SD	At Mission Valley Rd.		6/25/46	8/11/47	R.C. OC	142,466
14XC16	San Diego	77	SD	Over Balboa Pkwy. at Pascoe St.		6/26/46	11/21/47	2 R.C. OC's	266,433
14XC17-F	San Diego	77	SD	On Balboa Pkwy. at 6th St.		8/8/46	5/14/47	R.C. OC	88,390
11XC16	San Diego	77	SD	Bet. A St. & 0.4 Mi. S. of Mission Valley Rd.	2.9	8/8/46	5/22/47	R.C. UC	120,886
11XC19	San Diego	77	SD	Bet. 11th Ave. & A St.		4/21/47	6/9/48	Landscape	79,108
11X43	San Diego	77	SD, A	Bet. A St. & 0.5 Mi. N. of City Limits	7.0	8/1/47	11/28/47	Signals & Lights	10,228
1-11VC47	San Diego	77	SD	Bet. A St. & Friar's Rd.		8/28/47	5/24/48	Signs & Stripe	8,471
						8/5/49	4/18/50	Lights	84,626
Total to 6/30/52.									\$4,290,580

NOTE: * opposite a contract indicates final cost figures not yet available.

COLORADO FREEWAY

Contract number	County	Route	Section	Location	Miles	Award date	Completion date	Type of work	Construction cost
51-14VC16	Los Angeles	161	Pas	Bet. San Rafael Ave. & Orange Grove Ave.	0.7	3/16/51	Underway	3 R.C. Brs. & Apps. & Alter R.C. Br.	*\$3,599,873
53-14VC3	Los Angeles	161	Pas	Bet. Orange Grove Ave. & Holly St.	0.3	5/5/52	Underway	Grade, P.M.S. & R.C. OC.	*\$257,753
				Various Locations				Signals & Lights Under Various Con- trails	*\$17,300
Total to 6/30/52.									\$3,874,926

NOTE: * opposite a contract indicates final cost figures not yet available.

OCEANSIDE FREEWAY

Contract number	County	Route	Section	Location	Miles	Award date	Completion date	Type of work	Construction cost
51-11VC11-F	San Diego	2	Ocn	Bet. 0.25 Mi. S. of Mission Ave. & San Luis Rey Riv.	1.1	3/23/51	5/26/52	Grade, P.C.C. on C.T.S., Grade & P.M.S. on Frontage Rds. & 3 R.C. Seps.	*\$1,088,574
51-14VC23-F	San Diego	2	Ocn, C	Bet. 0.1 Mi. S. of San Luis Rey Riv. & Camp Pendleton Main Entrance	0.5	6/18/51	Underway	Widen SdL Truss Br. & Apps. with P.M.S. on P.C.C. Base.	1,066,602
51-11VC13-F	San Diego	2	B	Bet. 0.7 Mi. S. of San Marcos Cr. & 2.2 Mi. S. of Carlsbad	3.2	6/28/51	6/30/52	Grade, P.C.C. on C.T.S., P.M.S., SdL Ck. & 3 R.C. Brs. & I R.C. Culv.	751,059
52-11VC10	San Diego	2	B, Ocn	Bet. Buena Vista Lagoon & 0.25 Mi. S. of Mission Ave.	2.1	9/25/51	Underway	Grade, P.C.C. & 6 R.C. Structs.; 3 OC's, OH, Br. & Grade Sep.	1,830,663
53-11VC1-F	San Diego	2	B	Bet. 2.2 Mi. S. of Carlsbad & Buena Vista Cr.	4.4	4/23/52	Underway	Grade, P.C.C. on C.T.S., P.M.S. on Frontage Rds., Ramps, & Intrs. Sds. & Rds., SdL Ck. & 10 R.C. Structs., 4 OC's, 2 UC's, 2 Brs., OH, & Ped. UC.	2,581,465
Total to 6/30/52									\$7,318,453

NOTE: * opposite a contract indicates final cost figures not yet available.



AERIAL VIEW OF HOLLYWOOD FREEWAY in Los Angeles showing four-level structure with connections to Arroyo Seco and Harbor Freeways. Federal aid project.

FEDERAL AID

All contracts which were partially financed with federal-aid primary and urban funds provided by the Federal-aid Highway Act of 1948 and the first year apportionment provided by the Federal-aid Highway Act of 1950, were under way or completed before the end of the Fiscal Year 1951.

The status of the program obligating federal-aid for improvements on the Secondary Federal-aid System is discussed further in this report under "Federal-aid Secondary Roads."

On November 14, 1951, California received its second and final apportionment of federal funds authorized by the Federal-aid Highway Act of 1950.

The amounts for the three classes of federal-aid projects, apportioned to California for the second year of federal authorization are as follows:

Primary federal-aid projects.....	\$10,160,691
Urban highway projects.....	10,761,356
Secondary federal-aid projects.....	5,233,338

The above amounts apportioned to California provide a total of \$26,155,385 for the three classes of projects. Programs designed to obligate the second year apportionments for primary and urban federal-aid projects have been approved by the Bureau of Public Roads. The proposed disposition of federal funds for secondary federal-aid projects is discussed under "Federal-aid Secondary Roads."

Under the 1950 Federal-aid Highway Act the program for primary federal-aid projects in California includes 17 contracts and a planning survey project with a total cost of \$19,946,700. By the end of the fiscal year on June 30, 1952, work on 13 of these contracts was either completed or under way at a cost of \$13,180,000, including federal funds in the amount of \$6,852,700. The remaining programmed projects are scheduled for early advertisement.

The program for federal-aid urban projects includes 18 contracts and a planning survey project at a total cost of \$23,728,000. Work was either completed or under way at the end of the fiscal year on 12 of these contracts at a cost of \$16,507,000, including federal funds in the amount of \$8,589,000. The remaining programmed projects are scheduled for early advertisement.

In passing the Federal-aid Highway Act of 1950, Congress emphasized the importance of early improvement of the National System of Interstate Highways.

Although the Interstate Highway System mileage in California comprises less than 27 percent of the total primary and urban mileage, California has utilized about 45 percent of its total two-year apportionment of primary and urban funds for the improvement of the National System of Interstate Highways in California.

Access Roads

The Federal-aid Highway Act of 1950 authorized an appropriation of \$10,000,000, which was subsequently increased to \$45,000,000, for the construction of access roads important to the national defense.



CONSTRUCTION OPERATIONS ON HARBOR FREEWAY in downtown Los Angeles showing Fifth Street, Sixth Street, Wilshire Boulevard, Seventh Street and Eighth Street structures from left to right. Federal aid project.

By the end of the fiscal year, the California Division of Highways had been requested by the Bureau of Public Roads to undertake the survey and supervise the construction of 10 access projects in this State. The sum of \$456,200 was set aside by the Federal Government to handle this operation. Since the \$45,000,000 appropriation was nearly depleted and since the sum of \$456,200 allocated to the 10 California projects was insufficient to finance the entire construction of these projects, it is anticipated that additional federal funds will be made available from \$50,000,000 authorized for access roads by the recently enacted Federal-aid Highway Act of 1952.

Federal-aid Act of 1952

On June 25, 1952, the Federal-aid Highway Act of 1952 became law. This new act authorized an appropriation of the sum of \$550,000,000 for the fiscal year ending June 30, 1954, and a like sum for the fiscal year ending June 30, 1955, for continuing improvements on the federal-aid primary, urban and secondary systems throughout the United States. These sums will be apportioned to the states on the basis of the same formulas as provided by the 1950 act. These formulas utilize factors of population, area and mileage of post roads.

It is anticipated that the apportionment of these funds, for the fiscal year ending June 30, 1954, will be made to the states before the end of the Calendar Year 1952.

It is estimated that the amounts for the three classes of federal-aid projects to be apportioned to California for the first year of federal authorization will be as follows:

Primary federal-aid projects-----	\$11,177,000
Primary federal-aid projects in urban areas-----	11,837,000
Secondary federal-aid projects-----	5,757,000

The above amounts will provide an estimated total of \$28,771,000 for the three classes of projects. This sum with its required matching with state and county funds will provide for a highway construction program of approximately \$50,000,000 for the next fiscal year. The matching requirements in California provide for a present ratio of 58.35 of federal funds to 41.65 of state or county funds.

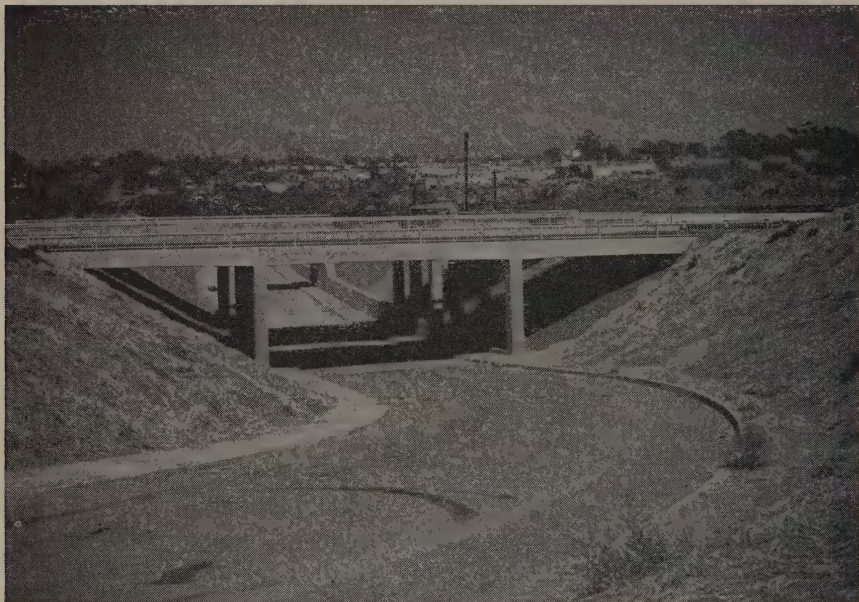
An innovation of the 1952 act, which affects the financing of California highways, is an authorization for the appropriation of \$25,000,000 for the fiscal year ending June 30, 1954, and a like sum for the fiscal year ending June 30, 1955, for the construction and improvement of the National System of Interstate Highways.

The mileage of this system of interstate highways is limited by federal law to 45,000 miles. The approved mileage of this system in California is 1,900 miles and the entire mileage is included in the approved Federal-aid Primary System.

It is estimated that the amount to be apportioned to California for improving the interstate system for the first year of federal authorization will be \$1,141,000 in addition to the \$28,771,000 authorized for federal-aid primary, urban and secondary projects. The sum must be matched with state funds in the same ratio as used for the three previously discussed types of funds. This will provide an additional yearly program of approximately \$2,000,000 for improving the Interstate System in California.

This fund is apportioned to California by the same formula as used in apportioning federal-aid primary funds. That is, equal weight is given to state area, state population and state mileage of roads used to transport the United States mails, commonly referred to as post roads.

While Congress has recognized the need of accelerating the improvement of the National System of Interstate Highways and authorized this initial appropriation, the amount received by California together with its matching funds totaling about \$2,000,000 will go but a short way in improving the 1,900-mile system in California currently estimated to require an expenditure in excess of one billion dollars to improve to adequate standards to safely handle present and anticipated traffic. However, it should be noted that as previously stated approximately 45 percent of the State's apportionments of primary and urban funds for the last two years is being used for improvements to the Interstate System.



BRIDGES CARRYING MONTGOMERY FREEWAY (U. S. 101) over 24th Street in National City, San Diego County. Federal aid project.



CONSTRUCTION OPERATIONS ON HOLLYWOOD FREEWAY over Franklin Avenue in Hollywood. Federal aid project.

APPORTIONMENT OF FEDERAL FUNDS TO CALIFORNIA

Fiscal year ending	Primary Federal Aid	Urban Federal Aid	Emergency Advance Fund	Emergency Relief and Construction Fund	U. S. Public Works Fund	1935 Public Works Highway Fund	Works Program Fund	
							Highways	Grade crossing
June 30, 1917	\$151,063.92							
June 30, 1918	302,127.84							
June 30, 1919	1,980,415.53							
June 30, 1920	2,896,071.77							
June 30, 1921	3,054,675.51							
June 30, 1922	2,462,098.53							
June 30, 1923	1,641,399.02							
June 30, 1924	2,140,463.10							
June 30, 1925	2,487,157.78							
June 30, 1926	2,472,636.00							
June 30, 1927	2,484,706.00							
June 30, 1928	2,483,437.00							
June 30, 1929	2,486,415.00							
June 30, 1930	2,495,345.00							
June 30, 1931	4,179,831.00							
August 31, 1931			3,808,827.35					
June 30, 1932	4,181,212.00							
June 30, 1933	4,140,910.53			\$4,667,188.00	\$15,607,354.00			
Available on and after July 1, 1933								
June 30, 1934								
June 30, 1935								
June 30, 1936	4,756,959.00							
June 30, 1937	4,751,712.00							
Floods of 1937 and 1938								
June 30, 1938	4,858,220.00					\$7,932,206.00		
June 30, 1939	4,735,268.00							
Floods of 1940								
June 30, 1940	3,814,812.00						\$7,747,928.00	\$7,486,362.00
June 30, 1941	4,382,966.00							

[illegible]

[illegible]

† Includes \$182,158.65 of Federal Housing Authority funds.

NOTE: For actual cash reimbursements made by the Federal Government to the State of California for expenditures incurred by the State refer to Appendix (A), Table (6), on page (28). (Includes \$162,133.00 of Federal housing authority funds.)



STEEL GIRDER BRIDGE across Sacramento River at Anderson in Shasta County. F. A. S. county road project.

COUNTY AND COUNTY COOPERATIVE PROJECTS

Federal-aid Secondary Roads

The period covered by this report coincides very closely with the first year of operation under the Secondary Highways Act of 1951, which established the policy of the State Legislature toward federal-aid secondary highway funds, and being an urgency measure, became effective by the Governor's signature on July 3, 1951.

This act declared a continuing policy of the State Legislature in allocating $87\frac{1}{2}$ percent of the secondary funds to the counties for expenditure on county roads in the Federal-aid Secondary System, as had been the practice since 1945. The same distribution formula that has been applied to the secondary funds from previous federal acts was designated to be used for the funds from the Federal-aid Highway Act of 1950, namely, that $87\frac{1}{2}$ percent of the federal allocation be apportioned among the eligible counties on the basis of rural population, area, and mileage of rural mail delivery and star routes, with equal weight to each percentage of the state totals, except that no county would receive less than one-half of 1 percent.

The most important part of the act from an operational viewpoint is the section which establishes continuity. Under this provision the State will be able to reapportion future federal appropriations to the counties as soon as the Federal Commissioner of Public Roads notifies the State that its apportionment under the federal act is available. In the past, such funds have been available for reapportionment to the counties as early as seven months before the fiscal year named in the federal act, but due to the lag of state legislation, were not made available to the counties until the fiscal year had already begun. The full effect of this provision will not be felt until the counties catch up with their program, which has been lagging due to the former slowness of legislation.

During the past fiscal year, 59 new federal-aid secondary projects were begun, 57 by contract, and two by day labor. The cost of these projects, including engineering, totals \$10,027,429. During the same period, 51 such projects were completed at a cost of \$6,611,903.

Since the initiation of the federal-aid secondary highway program by the Federal-aid Highway Act of 1944, 311 county road or bridge contracts have been completed, placed under way, or advertised. The total cost of the 304 of these projects that are under way or completed, including construction engineering, is \$45,610,953.49. These projects involve 158 bridges at an average cost of \$78,047.24 per bridge, and 1,064.859 miles of road at an average cost of \$31,252.49 per mile.

It will be noted that the average cost per bridge has risen considerably since the last report. This is due to larger and more costly bridges being built under the program in the more recent years. For example, the average cost of the federal-aid secondary bridges under contract as of June 30, 1951, was \$115,447.38 and as of June 30, 1952, it was \$214,916.33.

Accompanying is a tabulation of the status of both state and county federal-aid secondary projects as of June 30, 1952.



F. A. S. IMPROVEMENT to county road in Riverside County between
Arlington and Riverside



COUNTY ROAD IMPROVEMENT partially financed with F. A. S. funds between
state hospital and Imola in Napa County

As of the end of the fiscal year, programs had been submitted to the Bureau of Public Roads covering approximately 1,329 miles of road costing \$67,379,552. These projects obligated \$32,634,172 of federal funds out of the total postwar federal-aid secondary fund apportionments of \$35,124,437. As of the same date, the unprogramed balance was \$2,512,-321.62, which means that before the beginning of the second fiscal year of the 1950 Federal-aid Highway Act, approximately one-half of the second-year federal-aid secondary funds had been programed.

Since the Federal-aid Highway Acts specifically exempt municipalities of over 5,000 population from participating in the program, San Francisco County has never received any federal-aid secondary funds, because the county is entirely within the corporate limits of the City of San Francisco. Due to the gradual extension of the urban areas in Los Angeles County, many such areas may, in time, be eliminated from the program.

One of the other provisions of the new state act that is aiding in the speeding up of the program requires that each successive fiscal year apportionment to the respective counties shall be obligated by advertised projects prior to the first day of October next succeeding the end of the fiscal year for which they were appropriated under the federal act.

	Number of bridges	Length, miles	Total cost	Federal-aid Secondary and County Highway Aid Act funds	Other funds
County projects					
Under contract-----	13	136.643	\$5,584,025.73 2,793,912.24	\$2,976,311.21 1,713,159.63	\$2,607,714.52 1,080,752.61
41 contracts-----			\$8,377,937.97	\$4,689,470.84	\$3,688,467.13
Completed-----	145	928.216	\$27,695,464.36 9,537,551.16	\$21,019,389.68 7,973,914.52	\$6,676,074.68 1,563,636.64
263 contracts-----			\$37,233,015.52	\$28,993,304.20	\$8,239,711.32
County subtotals, 304 contracts-----	158	1,064.859	\$45,610,953.49	\$33,682,775.04	\$11,928,178.45
State projects					
Under contract-----	1	19.439	\$1,913,206.53 250,000.00	\$700,637.00 100,000.00	\$1,212,569.53 150,000.00
5 contracts-----			\$2,163,206.53	\$800,637.00	\$1,362,569.53
Completed-----	14	48.381	\$3,877,791.42 2,573,263.91	\$2,079,688.14 1,313,488.00	\$1,798,103.28 1,259,775.91
21 contracts-----			\$6,451,055.33	\$3,393,176.14	\$3,057,879.19
State subtotals, 26 contracts-----	15	67.820	\$8,614,261.86	\$4,193,813.14	\$4,420,448.72
Grade Crossing Projects—61 67 crossings-----			\$276,751.44	\$262,763.62	\$13,987.82
Grand totals-----	173	1,132.679	\$54,501,966.79	\$38,139,351.80	\$16,362,614.99

Except for a 25 percent carryover, funds not so used are relinquished to the State for expenditure on a state highway on the Federal-aid Secondary System within the county releasing said funds. The following tabulation shows the status of retained and relinquished funds for the three federal acts as of June 30, 1952.

	<i>Retained for use on county roads</i>		<i>Relinquished for use on state highways</i>	
	<i>Obligated</i>	<i>Balance</i>	<i>Obligated</i>	<i>Balance</i>
1944 Act -----	\$13,153,941.00	\$0.00	\$335,338.00	\$0.00
1948 Act -----	7,015,250.13	72,285.00	263,874.87	696,775.00
1950 Act -----	2,310,103.45	5,945,882.55	182,018.13	758,414.87
Totals -----	\$22,479,294.58	\$6,018,167.55	\$781,231.00	\$1,455,189.87

Since the state highway funds required to match the relinquished federal-aid secondary funds are charged against the county minimums specified in the Collier-Burns Act, there is no gain in highway revenue to a county relinquishing FAS funds, but merely a shift in federal funds from a county road to a state highway on the Federal-aid Secondary System in that county.

During the past year, minor revisions were made in the Federal-aid Secondary System. As of June 30, 1952, this system, as approved by the Commissioner of Public Roads, consisted of 9,403.3 miles, of which 5,690.6 miles are on county roads, and 3,712.7 miles are on state highways. This represents an increase of 132.6 miles over that reported a year ago.



IMPROVEMENT TO COUNTY ROAD over state range between Trona and Panamint Valley in Inyo County. Partially financed with F. A. S. funds.

Federal Access Roads Not on State Highway System

The Federal-aid Highway Act of 1950 authorized funds to continue the construction of access roads authorized by the Defense Highway Act of 1941. The roads authorized to be constructed under this provision are certified by the Secretary of Defense to the Secretary of Commerce as being important to the national defense. Even though county roads or state highways are often involved, neither a county nor a state may initiate a proposal to utilize access road funds on such a road.

There has been more activity in this field during the past year than at any time since World War II. As of the end of this fiscal year, some 14 projects have been certified and as many more were in the review stage, or had been recommended. Because the Division of Highways had already established a reputation for judicious handling of federal funds assigned to the construction of county road projects, the division was designated as the agent for the Federal Government in the expenditure of access road funds on county highways and on other projects to be constructed by county forces.

Due to their urgent nature, much administrative effort is expended in bringing these projects to an early conclusion. The projects have ranged in size from a minimum of \$5,000 to a maximum of over \$1,000,000.

System of County Roads Maintained

In compliance with the provisions of Section 2121 of the "Streets and Highways Code," many of the counties of the State submitted revisions of their maintained systems in May of 1952. The total increase of maintained county roads as approved by the Division of Highways was 747.11 miles, and on June 30, 1952, the Director of Public Works certified to the State Controller that the county maintained road system consisted of 67,460.152 miles.

Included in this county maintained road system is the county primary road system which was revised in several counties during the year, and as of June 30, 1952, consisted of 19,427.514 miles. A county is permitted to revise its mileage of primary roads from time to time, but at no time may the mileage be in excess of 50 percent of the maintained mileage in that county.

County Road Reinventorv

The State continued the policy of offering the services of the Highway Planning Survey to the counties for the purpose of making reinventories of their county road systems. This work is partially financed with the 1½ percent of the federal funds that are set aside for highway planning purposes. The Bureau of Public Roads and the State require that the county requesting the reinventorv provide \$2.50 per maintained mile and the services of one employee during the field survey, as its share of the cost.

For the purpose of handling this work more judiciously, a new unit has been established within the Highway Planning Survey. A more detailed report is included in the planning section of this report covering that department's activities.

Due to the scarcity of trained engineers, few new counties have been added to the program during the past year. Butte County is the first county in which the reinventory has been completed under the postwar program, and as this report goes to press, that county has been presented with maps, tabulations, and a report showing what information may be derived from the tabulating machine cards that are a part of the data compiled. Additional copies of the completed data are being furnished other counties as a sample of the work being done under the program.

Joint Highway Districts

Under the provisions of the Joint Highway District Act, 27 joint highway districts have been organized within the State.

Section 4 of the Collier-Burns Highway Act of 1947 stipulates that not more than one-half of 1 percent of funds allocated to state highways in each county group (north and south) may be used for state aid in joint highway districts.

At this time, four joint highway districts are active. The present status of these four districts is as follows:

Joint Highway District No. 9—This Joint Highway District was organized May 28, 1928, to provide for the improvement of the Ocean Shore Highway in Santa Cruz, San Mateo, and San Francisco Counties. During the 1931 Session of the Legislature, this route was taken into the State Highway System as State Highway Route 56.

During the past year, a contract was completed between 0.2 mile north of Lobitos Creek and 0.3 mile north of Canada Verde Creek at an approximate cost of \$438,000. The work consisted of grading and surfacing.



F. A. S. IMPROVEMENT to county road southeast of Lakeville in Sonoma County



SAN GABRIEL RIVER BRIDGE on Valley Boulevard in Los Angeles County, Federal Aid Secondary Route 852

To date the State has expended \$2,243,027.90 for construction within this Joint Highway District, exclusive of rights of way and preliminary engineering. During recent years, the Joint Highway District has been contributing 50 percent of the actual construction and construction engineering costs. The State, in addition to half the construction costs, has been bearing the entire cost of rights of way and preliminary engineering.

Joint Highway District No. 10—This Joint Highway District was organized September 15, 1928, by San Francisco and San Mateo Counties for improvement of Junipero Serra Boulevard. It is now planned to cover construction of Junipero Serra Boulevard Extension, between San Francisco and Millbrae Avenue in the City of Millbrae, San Mateo County. No state highways are included in this district.

The State has been contributing an annual payment of \$47,500, which represents one-third of the cost, exclusive of preliminary engineering, but including rights of way, to assist in financing the improvement.

Four units have been completed over the years. In addition to the four units completed, a contract for resurfacing of a portion of the first unit was completed during the past year. This project extended from 0.3 mile south of San Francisco County Line to Edgemar Road and cost \$61,457.01.

A fifth unit, between Sneath Road and Crystal Springs Road, is under construction at an estimated cost of \$366,024.

Total contributions by the State amount to \$520,013.66.

Joint Highway District No. 14—This Joint Highway District was organized December 21, 1929, by Lassen and Modoc Counties. The district originally was comprised of the Susanville-Adin county road and portions each of State Highway Routes 28 and 210 between Adin and the Oregon line at Tulelake.

At present the district is active between Susanville and Adin, which is within the limits of FAS Route 988.

The last contract to be undertaken by this district is now under construction. The project will improve 12.8 miles of the Susanville-Adin Road between Grasshopper Valley Ranch and Hayden Hill, at an approximate cost of \$320,000. The contract is being financed as a joint highway district and federal-aid secondary project. Upon completion of this contract, the counties have agreed to dissolve the district.

The State has contributed a total of \$583,633.30 towards construction within the joint highway district, at an average annual rate of \$50,000. State funds have amounted to about 40 percent of all moneys expended for this joint construction venture.

Joint Highway District No. 26—This district was organized September 26, 1938, by Alameda and Contra Costa Counties. The major part of the project is on Mountain Boulevard in the City of Oakland. Under Section 527 of the Collier-Burns Highway Act, the route was taken into the State Highway System as State Route 227, and has since been declared a freeway by the State Highway Commission.

Preliminary engineering and administration of construction contracts are under the control of the Joint Highway District Engineer.

A major project between Broadway Terrace and Bruns Drive has been completed at an approximate cost of \$1,768,122.56, including rights of way. This improvement has developed 1.14 miles of Route 227 to four-lane divided freeway standards. The portion of the route completed under this contract has now been accepted as a state highway.

Since the organization of the district the State has contributed \$1,375,000 towards financing 50 percent of the construction costs, which include preliminary engineering and rights of way. State contributions have been at the rate of \$300,000 per year over the past few years.

CITY AND CITY COOPERATIVE PROJECTS

During the past year the expenditure of the gas tax allocated to cities under the provisions of the Collier-Burns Highway Act of 1947 proceeded in a uniform and uneventful manner.

Population in Cities

The official figures of the 1950 federal census, which had been so long delayed, were finally announced on October 14, 1951, one year and six months after the date of the census. The final figures showed a population of 7,191,394 residing within the incorporated cities and towns in the State of California. This figure is 68,801 more than the preliminary figure of 7,122,593 released on September 28, 1950. The increase amounts to 0.97 percent of the preliminary figures which is so small as to be almost negligible. The 1950 population is 2,170,544 or 43.2 percent greater than the 1940 population of 5,020,850 residing in incorporated places.

The calculated population of incorporated municipalities on June 30, 1951, was determined as provided in the Streets and Highways Code by adding to the number in the census a figure obtained by multiplying by three the number of registered electors in any annexed territory or any city incorporated subsequent to the last census. The total city population thus determined was 7,217,658. During the Fiscal Year July 1, 1951, to June 30, 1952, there were two cities incorporated, having a total population of 20,388. These cities are Campbell in Santa Clara County, incorporated March 28, 1952, with a calculated population of 6,693; and Fontana in San Bernardino County, incorporated June 25, 1952, with a calculated population of 13,695. During the same period 113 cities annexed 372 tracts of land. The calculated population residing in these annexed areas amounted to 33,597. The total increase in urban population during the fiscal year due to annexations and incorporations amounted to 53,985. In addition to the increase in population by reason of annexations and incorporations, 13 cities have had special censuses taken since July 1, 1951, showing an increase of 144,328 over the 1950 census. These increases bring the total calculated population residing in cities to 7,415,971 on June 30, 1952.

Due to a peculiarity inserted in the law by the 1951 Legislature when a city annexes uninhabited territory, the population of that territory is determined two years after the date of the annexation. In the above figure the number of annexations includes the number of uninhabited areas annexed during the year. There was no corresponding increase in population due to those annexations since they were uninhabited. Two years hence the population that has moved into those areas in the meantime will be calculated by multiplying the number of registered electors then residing in the area by three and the result added to the city's population. The above figures include the calculated population that moved into any uninhabited areas annexed to cities during the period April 1, 1950, to June 30, 1950. This act is designed to give a population advantage to those cities that are rapidly expanding their boundaries by annexing uninhabited land which is then subdivided and built upon. By waiting two years after the date of annexation to determine

the population, there is ample time for the land to be subdivided, built upon, and the houses sold. People moving into these houses, however, are not all newcomers to the State or the city and therefore they do not properly represent an increase in population. Most of these people already live in the city and upon completion of the housing development, move into a new house to secure better or larger accommodations, merely causing a redistribution of the people rather than creating an increase in population. Having been counted once as residents of the city, to count them again after they have moved into a new subdivision is actually to count the same people twice.

Apportionments to Cities

During the fiscal year just closed the amount of \$20,777,496.69 was apportioned among the 308 incorporated cities in the State for expenditure on city streets. This is \$1,447,750.05 or 7.5 percent more than apportioned during the preceding fiscal year. In addition to the estimated amount of gas tax revenue apportioned to cities for the 1952 Fiscal Year there remains unexpended from the Fiscal Year 1951 together with savings on budgeted projects constructed during the year, the amount of \$8,871,960.62, carried forward for expenditure in 1952 and 1953 making a total of \$29,649,457.31, available for budgeting during the year. Of the total amount available, the sum of \$23,925,099.54 was budgeted by the cities for expenditure leaving an unbudgeted balance of \$5,724,357.77 to be carried over for budgeting during the fiscal year ending June 30, 1953. Of the amount budgeted for expenditure during the year, \$17,676,779.17 was budgeted for acquisition, construction, or improvement of major city streets and \$5,440,137.27 was budgeted for maintenance on both major city streets and secondary city streets. By comparing the above figures with the corresponding figures of the preceding year, it will be noted that the amount budgeted for construction in 1952 was \$1,456,980.02 less than in 1951 and the amount budgeted for maintenance in 1952 was \$634,785.20 greater than in 1951. Although the amount budgeted for maintenance in 1952 was 13 percent greater than in the preceding year, that amount is still only 65 percent of the maximum allowed for maintenance by the Collier-Burns Highway Act of 1947. While the \$5,440,000 budgeted for maintenance in 1952 is greater than in the preceding year, it is still only a small proportion of the total amount expended for maintenance by cities. In 1951, the latest fiscal year for which complete figures are available, the amount of the gas tax allocation to cities expended for street maintenance was 19.5 percent of the total amount expended for street maintenance by cities that year, the remaining 80.5 percent being financed from other city funds.

It might be pointed out here that the amount available for budgeting is not a constant amount throughout the year, but is continually changing, either increasing or decreasing. As contracts financed from previous year's funds are finished, any difference between the amount originally budgeted and the final cost of the project becomes available for rebudgeting. As contracts are being finished in every month of the year, these accretions are continually occurring, and become available for rebudgeting for other work.

During the past year plans and specifications for the construction or improvement of major city streets were approved by the department for 415 projects involving 211 miles of streets, at a total estimated cost of \$13,143,000 of gas tax funds. This figure does not include any amount contributed from other agencies such as the counties or funds authorized by Chapter 20, Statutes of 1946, or other city funds. This amount also includes the construction of bridges and the installation of automatic traffic signals. Expenditures for preliminary surveys and plans and for the acquisition of rights of way is in addition to the above amounts.

¼-Cent Funds

The Collier-Burns Highway Act of 1947 repealed the allocation of one-fourth cent of gas tax revenue originally authorized in 1933 for expenditure upon state highways within cities. The repeal took effect on December 31, 1947, and since that date there has been no addition to the fund. On June 30, 1952, \$893,579.32 of the one-fourth cent for state highways remained unexpended. During the past year the sum of \$145,000 was expended by the department and \$757,000 was expended by the cities, making a total expenditure for the year of \$902,000. This expenditure is 15 percent less than the amount expended during the preceding year. Of the amount remaining unexpended, the sum of \$842,000 or 94.3 percent is in the San Francisco district and the amount of \$51,000 or 5.7 percent is in the Los Angeles district. In the other nine State Highway Districts the entire amount of the one-fourth cent for state highways has been expended.

SERVICE AND SUPPLY

The normal functions of the Service and Supply Department consisting of procurement, storage and distribution of supplies, property management, standardization, and preparing commodity specifications were carried on and remained generally unchanged throughout the fiscal year.

In addition to the normal functions, the following two operations have been added to the department:

1. *Priorities*—The Priority Section was established in the Service and Supply Department to administer federal regulations imposed upon highway construction and maintenance operations. The federal regulations began in September, 1950, but did not come into full force until July 1, 1951. Consequently the functions of the Priority Section were greatly expanded during the fiscal year.

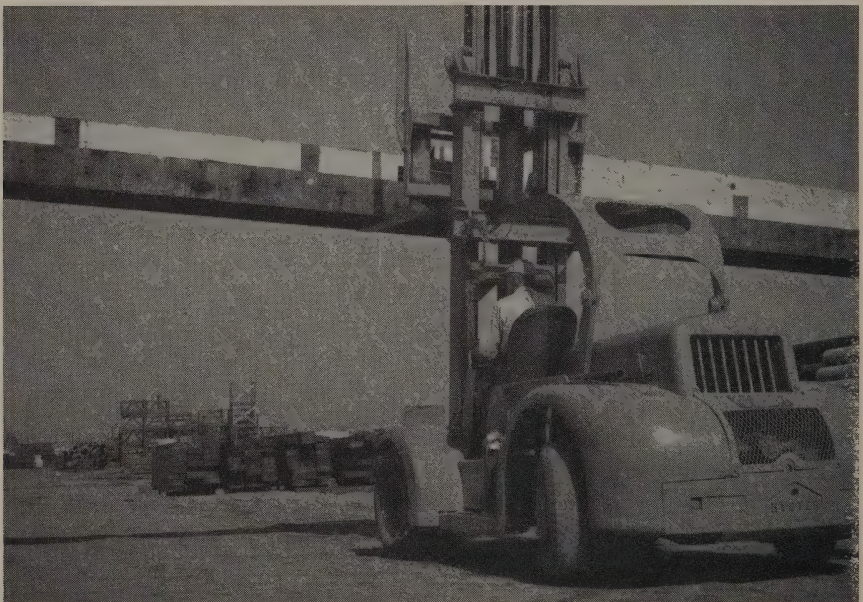
The National Production Authority delegated the administration of the Controlled Materials Plan to the Bureau of Public Roads for all highway construction and related work. As in other states, the California Division of Highways was made the sole agency responsible to the Bureau of Public Roads for collection, review, recommendations as to criteria of essentiality, and processing of applications for controlled materials required for state, cities, counties, and other road building agencies. This includes all rural and urban highways, streets, highway equipment repair shops, bridges, tunnels, toll road facilities, and appurtenant installations.

In addition to processing applications for controlled materials, particularly steel and copper, the Priority Section also assists in processing applications for the purchase of construction equipment, and the review and processing of requests for maintenance, repair, and operating supplies for highways and related projects. It is a further function of this section to review, process and issue instructions for those projects subject to self-authorization under the controlled materials plan.

Quarterly allocations of structural shapes and plate were seldom sufficient to provide for normal highway construction operations. In order to utilize quarterly allotments, close coordination was maintained at all times between the claimant agency, State, contractors, and fabricators to assure placement of the orders with the steel mills during the period of availability. It was necessary, therefore, that frequent field contacts be made with the various contractors, fabricators, and representatives of the steel mills to expedite placement and acceptance of authorized controlled material orders.

During the fiscal year, the Priority Section processed 482 applications for construction projects involving steel, copper and other critical materials. In addition, authority was issued to 361 construction projects which were eligible for self-authorization under the Controlled Materials Plan. Construction equipment required the processing of 39 applications, and 4,145 rated orders were issued for maintenance repair and operating supplies.

The California Division of Highways Priority Section has won national recognition for their efficiency and organizational setup and have instigated several policies which are far reaching in this field.



FORK LIFT HANDLING LARGE TIMBERS at Division of Highways warehouse



FORK LIFT HANDLING LUMBER at Division of Highways warehouse

2. *Photogrammetry*—Due to a shortage of engineering personnel, aerial photogrammetry has been centralized at Headquarters to expedite issuance of highway construction plans and various studies and investigations. Photogrammetry has made vast strides during the last decade and indicates considerable saving in both time and money. Since April, 1952, the Service and Supply Department has been charged with the duties of preparing specifications, advertising, and issuing contracts for aerial photogrammetry work. During the three months' period, 10 agreements have been entered into with various companies in the industry covering an area in excess of 65,000 square miles of photography.

Instrument Repairs

Indicative of a number of field transactions, the Service and Supply Department instigated a program for the repair of surveying instruments such as transits and levels. Under this program all of the 675 instruments owned by the Division of Highways will have been serviced at the end of a four-year period, 25 percent of them being serviced each year. The repair work includes cleaning and adjusting each instrument with major overhaul when required.

In formulating the program, a complete schedule of repairs was drawn up in cooperation with eligible repair contractors and field engineers from each district in a roundtable discussion meeting in Sacramento. The schedule is put out for bid on a yearly contract basis, thus developing a healthy competition among the repair contractors. The results have been a substantial decrease in the unit cost of repairing each

instrument. The cost of repairs has averaged \$29 for levels and \$47 for transits, which included any work on the instrument, tripod and box necessary to put them in good serviceable condition.

At present instruments from the districts in the southern part of the State are being repaired in Los Angeles and those from the northern part of the State are being repaired in San Francisco.

Standardization

On June 9, 1952, directors or representatives of seven state departments met in conference in Sacramento and formed a committee to consider over-all policy regarding the standardization and specification of commodities purchased by the State in large quantities.

Subcommittees have since been chosen to study specific groups of related commodities.

It has been recognized that the Service and Supply Department of the Division of Highways has accomplished much pioneer work in this direction and is cooperating fully with the policy committee and the various subcommittees.

Specifications

Preparation of open specifications for the thousands of commodities purchased by the Division of Highways, as initiated and drafted into final form by Service and Supply, was continued during the fiscal year. The purpose of preparing and adhering to good specifications is to obtain maximum value and efficiency of use at a minimum of cost to the State.



FORK LIFT WITH ATTACHMENT FOR HANDLING CULVERT PIPE
at Division of Highways warehouse

To accomplish this goal three factors play major roles: (1) standardization of the commodity; (2) increase in quality without undue increase in cost; and (3) decrease in cost without undue decrease in quality.

Working on this basis, Service and Supply in cooperation with the Materials and Research Laboratory have assembled and issued specifications for use in the purchase of many commodities. The findings and recommendations of the laboratory are based upon exhaustive study, tests, and analyses for determination of the most suitable product to meet best the needs and conditions of state highway operations.

Laboratory inspection has been extended to 46 classes of commodities with very favorable results in procurement.

Some of the more notable savings resulting from purchase of commodities under specifications prepared as the result of laboratory investigations have been effected in procuring the following:

1. *Broom Fiber*—By combining 50 percent palmyra and 50 percent hickory fiber on power brooms, the wearability of the broom was increased 50 percent at no additional cost. This accomplishment has received considerable comment in the United States and abroad.

2. *Grader Blades*—During the course of experimenting with alloy steel grader blades, a specification was prepared for controlling heat treatment and hardness for low-cost carbon steel blades. This resulted in increasing the wear on carbon steel blades about 50 percent at no increase in cost, and further resulted in redesigning the shape of the blade.

3. *Blueprint Papers*—As a result of specifications prepared in cooperation with the laboratory, the Division of Highways will save about \$35,000 per year on blueprint papers without lowering the quality.

Business Volume and Inventory

Following is a tabulation of Service and Supply business for the fiscal year:

Direct purchases	\$6,452,891
Warehouse purchases	1,823,362
Warehouse disbursements	1,722,190
Inventory as of June 30, 1952	
Warehouse accounts 237 and 337	1,506,039
District accounts 137	1,055,621
Processing accounts	19,491

Following is a resume of nonrental equipment inventory as of June 30, 1952, representing \$4,744,496:

Funds allocated 1951-52	\$534,196.32
Funds expended	468,428.18
Funds reverted	\$65,768.14



LOS ANGELES RIVER FREEWAY in Long Beach. Willow Street Overcrossing in foreground. Federal aid project.

PLANNING

The Assistant State Highway Engineer, Planning, is directly concerned with and supervises the activities of the Division of Highways regarding planning, design, traffic, special studies and highway planning survey, and the budget.

PLANNING

The Planning Section's principal functions include: developing a long-range planning program; providing the recommended construction program for inclusion in the annual budget; processing project reports that initiate the authorizations for proceeding with surveys and preparation of construction plans; processing freeway agreements; processing minor improvement projects; coordinating the planning efforts of the Division of Highways with those of other agencies; and coordinating the steps attendant to route adoptions, freeway declarations and the public relations involved therein.

Long-range Planning

The basic principle underlying the endeavors of the Division of Highways to consistently provide for traffic requirements on its 14,000-mile system of highways calls for dependence on long-range advance planning. The advantages of formulating advance planning programs and of continually revising them as conditions change especially obtains when considering California's serious problem of correcting the impressive total of its critical deficiencies on state highways with limited and inadequate annual revenues. The responsibility of processing such planning programs occupies a large part of the operation of the Planning Section. Tentative programs are developed for five-year periods, within which the relative importance of projects can be readily analyzed. These programs become the guide for initiating surveys and plans well in advance of probable rights of way and construction authorizations and for an orderly determination of annual budgets. They represent the result of recommendations originating in the districts and screened by the various headquarters departments in joint conference. Similar procedure is repeated in the department's function of processing the recommendations for the annual construction program for inclusion in budgets, at which time there must be final adjustments in former tentative planning data and in determinations of extent of proposals that will fall within the limitations of available funds. Fluctuating prices of labor and materials have necessitated frequent revisions in planning program data and also cause changes in subsequent construction programs during the fiscal year in which construction is scheduled.



MISSION AVENUE INTERCHANGE on freeway through Oceanside (U. S. 101) in San Diego County. Federal aid project.

Project Reports

One of the major activities of the Planning Section is processing project reports from inception of a project to the stage when detailed design is started. This work is effecting unusual efficiency in planning and budgeting. The reports are authorized when planning program information indicates near future construction authorization may be expected. They are prepared in the district and show all the information and data that should be considered in determining where, when, how, and why an improvement project is necessary. They are reviewed at headquarters where analysis by the various departments is coordinated by the Planning Section after field review of the projects. The conclusions provide the basis for orderly development of surveys and plans on all those projects justified for early construction programming. Aerial mapping at this stage of project development has provided exhibits useful at that time and in subsequent steps, especially on freeway projects.

Freeways

The freeway and its development is one of the most important phases of modern highway planning.

The California Highway Commission's policy that local interests concerned be informed on the features of proposed freeway units before they are adopted as freeways, is carried out and coordinated through the Planning Section.

The commission's procedural resolution adopted on July 15, 1948, requires that the city and county governing bodies be given an opportunity to have a public hearing regarding prospective freeway routing. Public hearings are conducted by members of the commission and are attended by the Planning Engineer as well as district representatives.

During the fiscal year, 35 units of freeways totaling 136.2 miles were added to the freeway system by freeway declarations of the California Highway Commission, bringing the total declared freeway mileage to 1,806.2 miles. Only a portion of this mileage has been constructed.

Of the 35 units of freeway taken into the State Freeway System, 15 were projects involving major relocation. Only five of this group required formal public hearings. Three of these five hearings have been concluded with the adoption of the route as presented, with no changes in location or additional studies. Dates for the two remaining hearings have not been set by the commission.

There has been considerable activity in the freeway agreement phase of freeway planning between the State and cities or counties. About 70 percent of the freeway agreements presented for processing during the current fiscal year have already been successfully completed. The use of the supplemental freeway agreement which permits the substitution of a revised exhibit map without changing any of the provisions of the original agreement has enabled the State to meet the requirements for advanced and improved design standards with a minimum of administrative work.



AERIAL VIEW OF HARBOR FREEWAY in downtown Los Angeles showing Olympic Boulevard Undercrossing in foreground. Federal aid project.

Other Proposals Studied

Innumerable proposals, suggestions, and inquiries regarding new and existing routes, plans for their development, and budgets are received from individuals, and from public and semipublic organizations. Preparation of reports and replies on these subjects occupies considerable time of Planning Section personnel. Such work frequently extends into careful and comprehensive discussion and analysis, important for administrative as well as engineering use.

Liaison With Other Agencies

The Planning Section continued the important function of maintaining close liaison with public agencies whose works are interrelated with state highway planning and budgeting. The impact on highway facilities of plans for flood control, reclamation, water resource utilization, beaches and harbors, and soil conservation has become a prominent feature of cooperative activity. The interests of the Division of Highways are often affected by the projects of the Federal Bureau of Reclamation and Corps of Army Engineers, the State Reclamation Board and Division of Water Resources, and local flood control and conservation districts. In the majority of cases, established state highways are subject to relocation or alteration but there are instances in which new highway locations encroach on the developments of the other agencies. The advantages of having advance information through close contact between affected parties and of carrying out cooperative policies and negotiations on active projects are resulting in agreeable relationship and equitable discharge of respective responsibilities.

National Forest Highways

The Division of Highways acts jointly with the U. S. Bureau of Public Roads and the U. S. Forest Service in carrying out the provisions in federal aid acts regarding forest highway programs. The California apportionments of forest highway funds, including the approximate \$2,850,000 for the 1952-1953 Fiscal Year, have been covered by program agreements, but authorizations for construction are dependent on cash appropriations. Although the construction authorizations during the current year were in excess of \$4,000,000, the approved program totals are about \$2,000,000 more than the construction authorizations to date. To qualify under the directives that forest highway projects of benefit to national defense be considered in the expenditure of forest highway funds, timber access projects on the Forest Highway System have received preferred attention and have absorbed all the present construction authorizations. Lag in obtaining these authorizations has affected anticipated construction progress this year, but the large construction program is being placed under way. The State's participation in national forest highway matters is coordinated in the Planning Section.

Tabulations of the status of the California National Forest Highway System are included in this report on pages 138 to 141.

NATIONAL FOREST HIGHWAY SYSTEM IN CALIFORNIA, JUNE, 1952

No.	Name	Termini	National Forest	Length miles
Forest Highways on State Highway System				
1	Crescent City	Forest Boundary near South Fork-Oregon Line	Siskiyou, Six Rivers	33.6
2	Klamath River	Weitchpec-Mouth of Shasta River	Klamath, Six Rivers	133.0
3	Trinity River	Junction City-Horse Summit	Trinity, Six Rivers	63.5
4	Peanut-Van Duzen	Peanut-West Forest Boundary	Trinity, Six Rivers	34.0
5	Douglas City-Peanut	Douglas City-Peanut	Trinity	30.6
6	Beegum-Peanut	Beegum-Peanut	Trinity	22.0
10	Weed-Medicine Lake	U.S. 99 near Weed-North Forest Boundary	Shasta	14.9
11	Lava Beds	Spaulding Ranch-Near Stronghold	Modoc	30.6
12	Howard Gulch	Canby-Spaulding Ranch	Modoc	17.1
13	Alturas-Cedarville	West Forest Boundary-Cedarville	Modoc	10.2
14	Redding-Alturas	Adin-Canby	Modoc	21.8
15	Redding-Alturas	Southeast Corner National Forest-Near Burney	Shasta	3.5
18	Red Bluff-Susanville	12 miles West Mineral-East Forest Boundary	Lassen	36.1
19	Red Bluff-Susanville	Near Coppervale-Susanville	Lassen	15.4
20	Almanor (Sierra Way)	Almanor Dam-F.H. 22 (Feather River)	Plumas	19.0
21	Deer Creek Meadows	Forest Ranch-Deer Creek Meadows	Lassen	38.0
22	North Fork Feather River	Forest Boundary-Quincy	Plumas	53.4
23	Quincy-Beckwith	Quincy-Beckwith	Plumas	38.3
25	Nevada City-Downieville	North San Juan-Downieville	Tahoe	33.0
26	Yuba Pass	Downieville-Sattley	Tahoe	32.2
27	Sierraville-Hobart	Randolph-1.7 Miles South of Sierra-Nevada County Line	Tahoe	15.8
28	Calpine-Clio	Calpine-Mohawk Valley	Tahoe-Plumas	7.2
29	Emigrant Gap	Near Blue Canyon-Union Mills	Tahoe	38.7
30	Truckee-Meyers	Truckee Junction-U.S. Route 50	El Dorado	42.4
31	Tahoe-Brockway	Tahoe City-Nevada Line	Tahoe	10.8
32	Placerville-Lake Tahoe	Pollock Pines-Nevada Line	El Dorado	46.8
33	Carson Pass	Cook Station-Willow Creek	El Dorado	42.5
34	Woodfords-Minden	Woodfords-Nevada Line	Toiyabe	6.0
35	Ebbetts Pass	Murphy-Woodfords	Stanislaus-Toiyabe	77.0
36	Topaz	2 Miles South of Coleville-Nevada Line	Toiyabe	11.5
37	Bridgeport-Coleville	Bridgeport-2 Miles South of Coleville	Toiyabe	30.1
38	Sonora Pass	Soulsbyville Junction-U.S. Route 395	Stanislaus-Toiyabe	74.0
39	Big Oak Flat (Tioga)	Big Oak Flat-Yosemite Park Boundary	Stanislaus	32.0
40	Tioga	F.H. 41 (U.S. Route 395)-Yosemite North Park Boundary	Inyo	15.3
41	Red Rock-Bridgeport	Near Convict Creek-Mono Lake	Inyo	34.9
42	Red Rock-Bridgeport	Approximately 5 Miles North Inyo-Mono County Line-Approximately 1 Mile West Rock Creek Inn	Inyo	7.0
43	Luther Pass	Woodfords-U.S. Route 50 near Meyers	Toiyabe-El Dorado	17.8
45	Mariposa-El Portal	Briceburg-Yosemite Park Boundary	Sierra-Stanislaus	17.8
46	Harmony Ridge	West Forest Boundary-U.S. Route 40	Tahoe	16.7
47	Oakhurst	Yosemite Park Boundary-Oakhurst	Sierra	14.8
48	Huntington Lake	West Forest Boundary-Huntington Lake	Sierra	40.0
49	Kings Canyon	National Park Boundary-Deer Cove Creek	Sequoia	24.6
50	Fresno-Kings Canyon	Approximately 5 Miles West of Deer Park-National Park Boundary	Sequoia	12.9
51	Hoopa	Willow Creek Junction-Hoopa Indian Reservation	Six Rivers	8.7
52	Glenville-Kernville	West Forest Boundary-East Forest Boundary	Sequoia	13.0
53	Bakersfield-Freeman	Cottonwood Creek-Bodfish	Sequoia	30.1
54	Cuyama	Dutard Ranch-Cuyama River Bridge	Los Padres	15.4
55	Cuesta Pass	Cuesta-San Luis Obispo Creek	Los Padres	3.6
56	San Marcos	Santa Ynez River Bridge-South Forest Boundary	Los Padres	22.8
57	Ridge Route	Castaic-Gorman	Angeles-Los Padres	26.9
58	Arroyo Seco	La Canada-Red Box	Angeles	13.1
61	Angeles Crest	Red Box-Islip Saddle	Angeles	30.0
62	San Gabriel	South Forest Boundary-Islip Saddle	Angeles	32.0
63	Swartout	Islip Saddle-Highway near Phelan	Angeles-San Bernardino	24.0
64	Cajon	Devore-Near Summit	San Bernardino	14.8
65	Bear Valley	Forest Boundary near Arrowhead Springs-Pine Knot	San Bernardino	40.3
66	Fawnskin	F.H. 65-Sylvan Way via Fawnskin	San Bernardino	11.0
67	San Luis Rey	East Forest Boundary-West Forest Boundary	Cleveland	4.0
68	Mill Creek	Pine Knot-South Forest Boundary	San Bernardino	40.0
70	Idyllwild-Desert	West Forest Boundary-State Highway Route 187	San Bernardino	47.8
71	Mt. Lassen	Southwest Boundary Lassen National Park-Mineral	Lassen	8.8

No.	Name	Termini	National Forest	Length miles
Forest Highways on State Highway System—Continued				
75	Manzanita Lake.....	Lassen North Park Boundary-1 Mile West of Forest Boundary.....	Lassen.....	4.5
76	Maricopa-Ventura.....	North Forest Boundary-South Forest Boundary.....	Los Padres.....	47.8
77	Mt. Shasta-Mt. Lassen.....	Mt. Shasta City-Northwest Boundary Lassen National Park.....	Shasta-Lassen.....	91.3
79	Morgan Summit-Morgan Springs.....	Morgan Summit-Morgan Springs.....	Lassen.....	3.8
80	El Cajon-Jucumba.....	Alpine-La Posta Ranch.....	Cleveland.....	27.8
81	Mammoth Lakes.....	U.S. Route 395-McLeod Lake.....	Inyo.....	10.7
82	June Lake.....	U.S. Route 395-U.S. Route 395 via Silver Lake.....	Inyo.....	15.0
84	Morro Bay.....	East Forest Boundary-West Forest Boundary.....	Los Padres.....	3.6
91	Bishop Creek.....	East Forest Boundary-Sabrina Lake.....	Inyo.....	11.0
94	East Walker River.....	South Forest Boundary-Nevada Line.....	Toiyabe.....	8.5
Forest Highways Not on State Highway System				
7	Mendocino Pass.....	Williams Creek-Mouth of Grindstone.....	Mendocino.....	54.0
8	Lucerne-Bartlett.....	Lucerne Junction-Hough Springs.....	Mendocino.....	22.7
16	Willow Creek.....	Adin-Grasshopper Valley.....	Modoc.....	30.0
17	Westwood.....	State Highway 29-Forest Highway 92.....	Lassen.....	13.0
24	Gold Lake.....	Graecale-Yuba Pass Junction.....	Plumas.....	15.0
44	Aspen Valley.....	Big Oak Flat Highway-Boundary Yosemite National Park.....	Stanislaus.....	2.0
59	Vincent.....	Vincent-Barley Flat.....	Angeles.....	25.0
60	Mt. Wilson.....	Red Box-Mt. Wilson.....	Angeles.....	5.0
72	Idyllwild.....	Keen Camp-North Forest Boundary.....	San Bernardino.....	21.1
73	Laguna.....	Laguna Junction-Cuyamaca Lake.....	Cleveland.....	25.4
74	North Fork.....	Oakhurst Junction-F.H. 48.....	Sierra.....	26.5
78	Generals Highway.....	Sequoia Park-General Grant Grove, Kings Canyon National Park.....	Sequoia.....	10.4
83	Pine Crest.....	F.H. 38 (Sonora Pass)-Pine Crest.....	Stanislaus.....	0.9
85	Round Lake.....	U.S. Route 50-F.H. 33 (Carson Pass).....	El Dorado.....	11.0
86	Blue Lakes.....	F.H. 33 (Carson Pass)-F.H. 35 (Ebbetts Pass).....	El Dorado-Mono-Stanislaus.....	18.0
87	Clarks Fork.....	F.H. 35 (Ebbetts Pass)-F.H. 38 (Sonora Pass).....	Stanislaus.....	21.0
88	Clavey River.....	F.H. 38 (Sonora Pass)-F.H. 39 (Big Oak Flat).....	Stanislaus.....	30.0
89	Rock Creek.....	U.S. 395-Rock Creek Lake.....	Inyo.....	12.0
90	Western Divide.....	F.H. 52-Quaking Aspen Meadows (State Route 127).....	Sequoia.....	39.0
92	Feather Lake.....	F.H. 77 State Route 29.....	Lassen.....	47.0
93	Salmon River.....	Somes Bar-Sawyers Bar.....	Klamath.....	34.0
95	Mt. Pinos.....	U.S. Route 99-Bitter Creek Saddle.....	Los Padres.....	21.3
96	Mosquito Ridge.....	Foresthill-Beartrap Saddle.....	Tahoe.....	19.2
97	Herring Creek.....	F.H. 38 (Sonora Pass Highway)-Herring Creek Camp.....	Stanislaus.....	9.5
98	Everitt Memorial Highway.....	Mt. Shasta City-Panther Meadow.....	Shasta.....	14.8
99	Calaveras Big Trees.....	F.H. 35-North Boundary South Grove.....	Stanislaus.....	10.5

Forest highways on the State Highway System..... 1927.1 miles

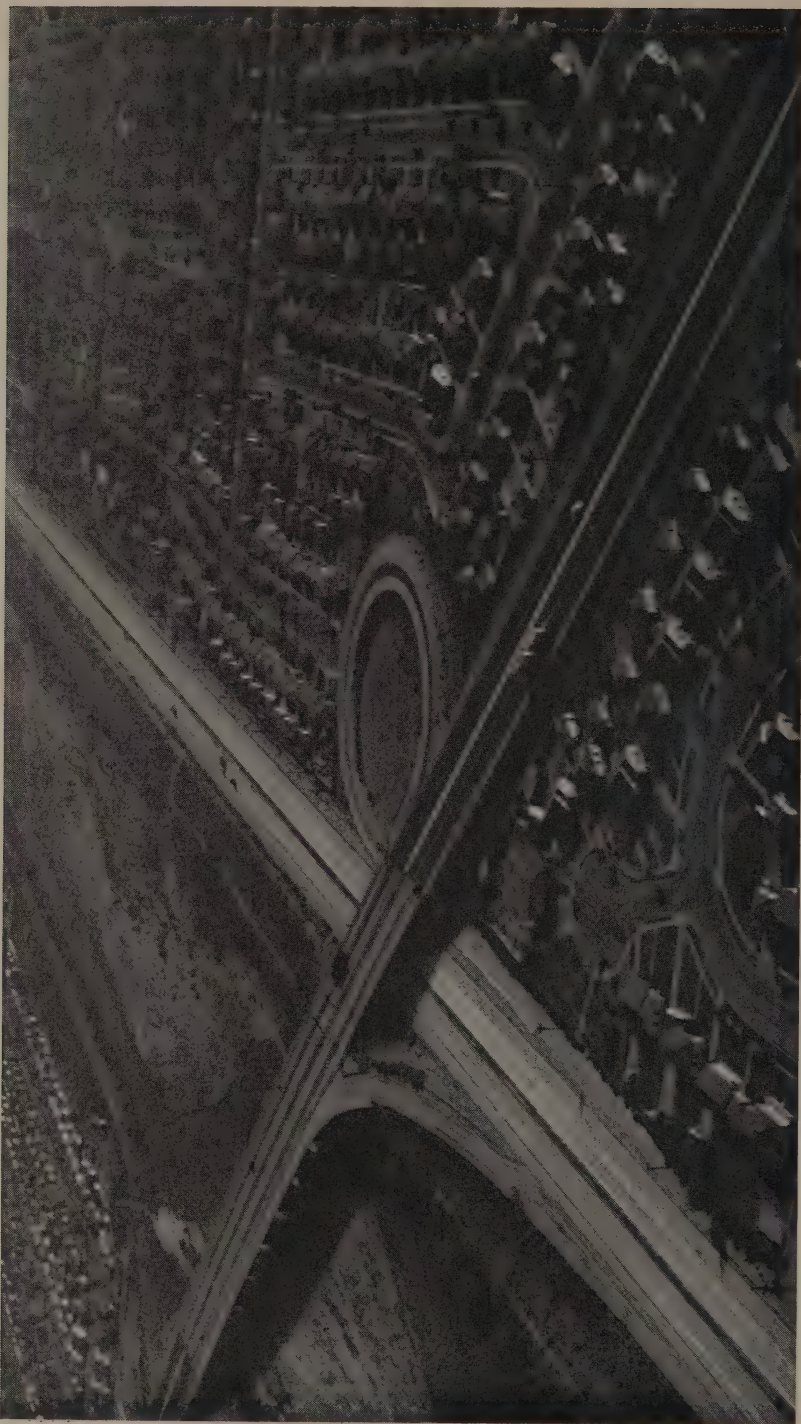
Forest highways not on the State Highway System..... 543.3 miles

California Forest Highway System..... 2470.4 miles

**CONSTRUCTION AND EXPENDITURES BY THE PUBLIC ROAD ADMINISTRATION ON FOREST HIGHWAY SYSTEM,
STATE OF CALIFORNIA, UP TO AND INCLUDING FISCAL YEAR 1952**

DESIGNATION		STATUS AS OF JUNE 30, 1952							
Rte. No.	Name of route	Termini of projects	County	National forest	Total length of route, miles	On Federal Forest Highway Projects			
						Miles built or under con- struction	Total expenditures	Federal funds	Cooperative funds
1	Crescent City (U.S. 199)	Forest Boundary near South Fork-Oregon Line.	Del Norte	Siskiyou, Six Rivers	33.6	26.7	\$1,478,904	\$695,925	\$782,979
2	Klamath River	Weitchpec-Mouth of Shasta River.	Humboldt-Siskiyou	Klamath, Six Rivers	133.0	50.2	1,501,818	1,403,266	95,562
3	Trinity River (U.S. 299)	Junction City-Horse Summit.	Trinity-Humboldt	Trinity, Six Rivers	63.5	4.8	129,884	129,884	4,248
5	Douglas City-Peanut.	Douglas City-Peanut.	Trinity	Trinity	30.6	28.3	1,412,386	1,408,188	4,248
6	Beegum-Peanut.	Beegum-F.H.4 at Peanut.	Trinity-Shasta	Trinity	22.0	3.8	216,949	216,949	
7	Mendocino Pass	Williams Creek-Mouth of Grindstone.	Mendocino-Glen.	Mendocino	54.0	54.0	451,365	416,365	35,000
8	Lucerne-Bartlett	Lucerne Junction-Hough Springs	Lake	Mendocino	22.7	22.7	54,560	47,341	7,219
10	Weed-Medicine Lake (U.S.97)	U.S. 99 near Weed-north Forest Boundary	Siskiyou	Shasta	14.9	9.9	99,003	99,003	
11	Lava Beds	Spaulding Ranch-near Stronghold	Modoc	Modoc	30.6	24.0	703,199	703,199	
12	Howard Gulch	Canby-Spaulding Ranch.	Modoc	Modoc	17.1	17.1	494,175	484,995	9,180
13	Alturas-Cedarville	Near West Forest Boundary-Cedarville.	Modoc	Modoc	10.2	7.7	117,776	58,888	58,888
14	Redding-Alturas (U.S. 299)	Adm-Canby	Modoc	Modoc	21.8	10.9	214,537	214,537	
18	Red Bluff-Susanville	12 Mi. West of Mineral-East Forest Boundary	Tehama-Plumas	Lassen	36.1	24.3	527,634	350,634	177,000
20	Almanor (Sierra Way)	Almanor Dam-F.H. 22 (Feather River)	Plumas	Plumas	19.0	19.0	1,106,877	1,067,877	
21	Deer Creek Meadows	Forest Ranch-Deer Creek Meadows.	Butte-Tehama	Lassen	38.0	25.9	912,189	821,548	90,641
22	North Fork Feather River	Forest Boundary-Quincy	Butte-Plumas	Plumas	53.4	5.7	200,700	200,700	
23	Quincy-Beckworth.	Quincy-Beckworth.	Plumas	Plumas	38.3	38.3	551,649	253,622	
25	Nevada City-Downieville	North San Juan-Downieville.	Nevada-Yuba-Sierra.	Tahoe	33.0	11.7	1,677,305	1,674,145	3,160
26	Yuba Pass	Downieville-Sattley	Sierra	Tahoe	32.2	32.2	757,753	757,753	
27	Sierraville-Hobart.	Randolph-1.7 miles South Sierra-Nevada County Line.	Sierra-Nevada	Tahoe	15.8	15.8	478,286	476,129	2,157
28	Calpine-Clio	Calpine-Mohawk Valley	Sierra-Plumas	Tahoe	7.2	7.2	212,544	212,544	
29	Emigrant Gap (U.S. 40)	Near Blue Canyon-Union Mills.	Nevada-Placer	Tahoe	38.7	6.9	246,826	246,826	
30	Truckee-Meyers	Truckee Junction-U.S. Route 50.	Nevada-Placer-El Dorado	El Dorado	42.4	14.5	494,732	457,303	37,429
31	Tahoe-Brookway	Tahoe City-Nevada Line.	Placer	Tahoe	10.8	4.9	320,788	314,354	6,434
32	Placerville-Lake Tahoe.	Pollock Pines-Nevada Line.	El Dorado	El Dorado	46.8	42.1	2,818,754	2,506,050	312,704
33	Carson Pass	Cook's Station-F.H. 43 at Willow Creek.	Amador-El Dorado	El Dorado	42.5	3.9	35,093	35,093	
35	Ebbetts Pass	Murphy-Woodfords.	Calaveras-Alpine	Stanislaus-Toiyabe	77.0	18.1	362,796	215,586	147,210
36	Topaz (U.S. 395)	2 Miles South Coleville-Nevada Line.	Mono	Toiyabe	11.5	11.5	215,037	214,237	800
38	Sonora Pass	Soulsbyville Junction-Sonora Junction.	Tuolumne-Mono	Stanislaus-Toiyabe	74.0	34.8	1,325,059	1,206,817	118,242
46	Harmony Ridge	West Forest Boundary-Junction F.H. 29	Nevada-Placer	Tahoe	16.7	3.7	481,147	481,147	

47	Oakhurst.....	Yosemite National Park Boundary-Oakhurst.....	Mariposa-Madera.....	Sierra.....	14.8	14.8	591,435	591,435	
48	Huntington Lake.....	Southwest Forest Boundary-Huntington Lake.....	Fresno.....	Sierra.....	40.0	8.7	519,526	528,022	21,504
50	Fresno-Kings Canyon.....	Approximately 5 miles West of Deer Park-National Park Boundary.....	Fresno-Tulare.....	Sequoia.....	12.9	1.6	202,025	202,025	
51	Hoopa.....	Willow Creek Junction-Hoopa Indian Reservation.....	Humboldt.....	Six Rivers.....	8.7	8.7	274,610	274,610	
54	Cuyama.....	Butard Ranch-Cuyama River Bridge.....	Santa Barbara.....	Los Padres.....	15.4	15.4	651,792	312,927	338,865
56	San Marcus.....	Santa Ynez River Bridge-South Forest Boundary.....	Santa Barbara.....	Los Padres.....	22.8	16.3	392,553	211,791	180,762
60	Mt. Wilson.....	Red Box-Mt. Wilson.....	Los Angeles.....	Angels.....	8.0	15.0	185,213	185,213	
61	Angels Crest.....	Red Box-Isip Saddle.....	Los Angeles.....	Angels.....	30.0	13.4	887,571	870,277	8,294
62	San Gabriel.....	Isip Saddle-Highway near Phelan.....	Los Angeles-San Bernardino.....	Angels.....	32.0	9.4	1,450,820	278,076	1,172,144
63	Swartout.....			Angels-San Bernardino.....	24.0	9.8	546,566	546,566	
65	Bear Valley.....	Forest Boundary near Arrow Head Springs-Pine Knot.....	San Bernardino.....	San Bernardino.....	40.3	20.8	1,302,041	690,220	611,821
68	Mill Creek.....	Pine Knot-South Forest Boundary.....	San Bernardino.....	San Bernardino.....	40.0	9.6	2,191,315	2,191,315	
70	Idyllwild-Desert.....	West Forest Boundary-Junction State Route 187.....	Riverside.....	San Bernardino.....	47.8	37.3	525,564	469,863	55,701
71	Mt. Lassen.....	Southwestern Boundary Lassen National Park-Mineral.....	Tehama.....	Lassen.....	8.8	6.0	125,814	100,814	25,000
72	Idyllwild.....	Keen Camp to North Forest Boundary.....	San Bernardino.....	San Bernardino.....	21.1	20.2	166,520	166,520	
73	Laguna.....	Laguna Junction-Cuyamaca Lake.....	San Diego.....	Cleveland.....	25.4	25.4	455,497	430,497	25,000
74	North Fork.....	Oakhurst Junction-Auberry (F.H. 47 to F.H. 49).....	Madera-Fresno.....	Sierra.....	26.5	4.3	237,570	237,570	
75	Manzanita Lake.....	Lassen National Park Boundary-1 mile West of Forest Boundary.....	Shasta.....	Lassen.....	4.5	4.5	102,372	102,372	
76	Maricopa-Ventura (U.S. 399).....	North Forest Boundary-South Forest Boundary.....	Ventura.....	Los Padres.....	43.4	25.7	1,149,576	335,202	814,374
77	Mt. Shasta-Mt. Lassen.....	Mt. Shasta City-NW. Boundary Lassen National Park.....	Siskiyou-Shasta.....	Shasta-Lassen.....	91.3	81.4	1,777,074	1,754,528	22,546
78	Generals Highway.....	Sequoia Park-General Grant Grove, Kings Canyon National Park.....	Tulare.....	Sequoia.....	10.4				
79	Morgan Summit-Morgan Springs.....	Morgan Summit-Morgan Springs.....	Tehama.....	Lassen.....	3.8	3.8	115,386	115,386	
81	Mammoth Lakes.....	U.S. Route 395-McLeod Lake.....	Mono.....	Inyo.....	10.7	9.1	231,656	231,656	
83	Pine Crest.....	F.H. 38 (Sonora Pass)-Pine Crest.....	Tuolumne.....	Stanislaus.....	0.9	0.9	32,297	32,176	121
84	Morro Bay (U.S. 466).....	East Forest Boundary-West Forest Boundary.....	San Luis Obispo.....	Los Padres.....	3.6	3.6	128,052	128,052	
87	Clarks Fork.....	F.H. 35 (Ebbetts Pass)-F.H. 38 (Sonora Pass).....	Tuolumne-Alpine.....	Stanislaus.....	21.0	9.2	345,462	345,462	
90	Western Divide.....	Junction F.H. 52-Quaking Aspen Meadows, Junction State Highway 127.....	Tulare.....	Sequoia.....	39.0	4.6	492,611	492,611	
92	Feather Lake.....	F.H. 77-F.H. 19 (State Highway 29).....	Lassen.....	Lassen.....	47.0	9.2	384,774	384,774	
93	Salmon River.....	Somes Bar-Sawyers Bar.....	Siskiyou.....	Klamath.....	34.0	17.0	792,960	691,931	101,029
95	Mt. Pinos.....	U.S. Route 99 (Near Lebec)-Bitter Creek Saddle.....	Kern-Ventura.....	Los Padres.....	21.3	6.0	397,627	397,627	
96	Mosquito Ridge.....	Foresthill-Beartrap Saddle.....	Placer.....	Tahoe.....	19.2	19.2	2,156,617	1,941,653	214,964
	Totals.....				1853.0	1001.5	\$38,696,643	\$32,958,643	\$5,737,600
	Totals.....						1,481,760	1,378,753	103,007
	Totals.....						\$40,178,003	\$34,337,396	\$5,840,607



BELHART STREET INTERCHANGE on Los Angeles River Freeway in Long Beach

DESIGN

The department's goal of having plans prepared two years in advance of construction is at present much closer to realization than it has been in recent years. In 1952 plans will be completed for projects not yet in any construction budget with an estimated construction cost of approximately \$158,000,000.

During the year ending June 30, 1952, plans were completed for 870 miles of highways, estimated to cost \$121,300,000. In comparison, the previous year saw the completion of plans for 660 miles of work estimated to cost \$71,108,000. In addition to this volume of completed work, there are surveys in progress and plans under way for construction of over 1,780 miles of highway, estimated to cost several times the amount of work completed during the year.

During the 1951-1952 Fiscal Year there was a total of 1,545 preliminary engineering authorizations processed and issued to the 11 districts and Bridge Department, which total includes project reports and supplemental authorizations. During the year there were 195 project reports processed through Headquarters Office, exclusive of signal and channelization projects.

As a part of the work completed during the year, 188 typical sections were processed, each requiring thorough consideration of the adequacy of the section for the traffic anticipated and determination that the best materials economically available were selected. The Design Department correlates the comments and recommendations of the several other departments in the processing of these typical sections. Similar study was given to approximately 388 interchange and intersection designs so that the greatest traffic service, consistent with funds available, may be rendered by the completed project.

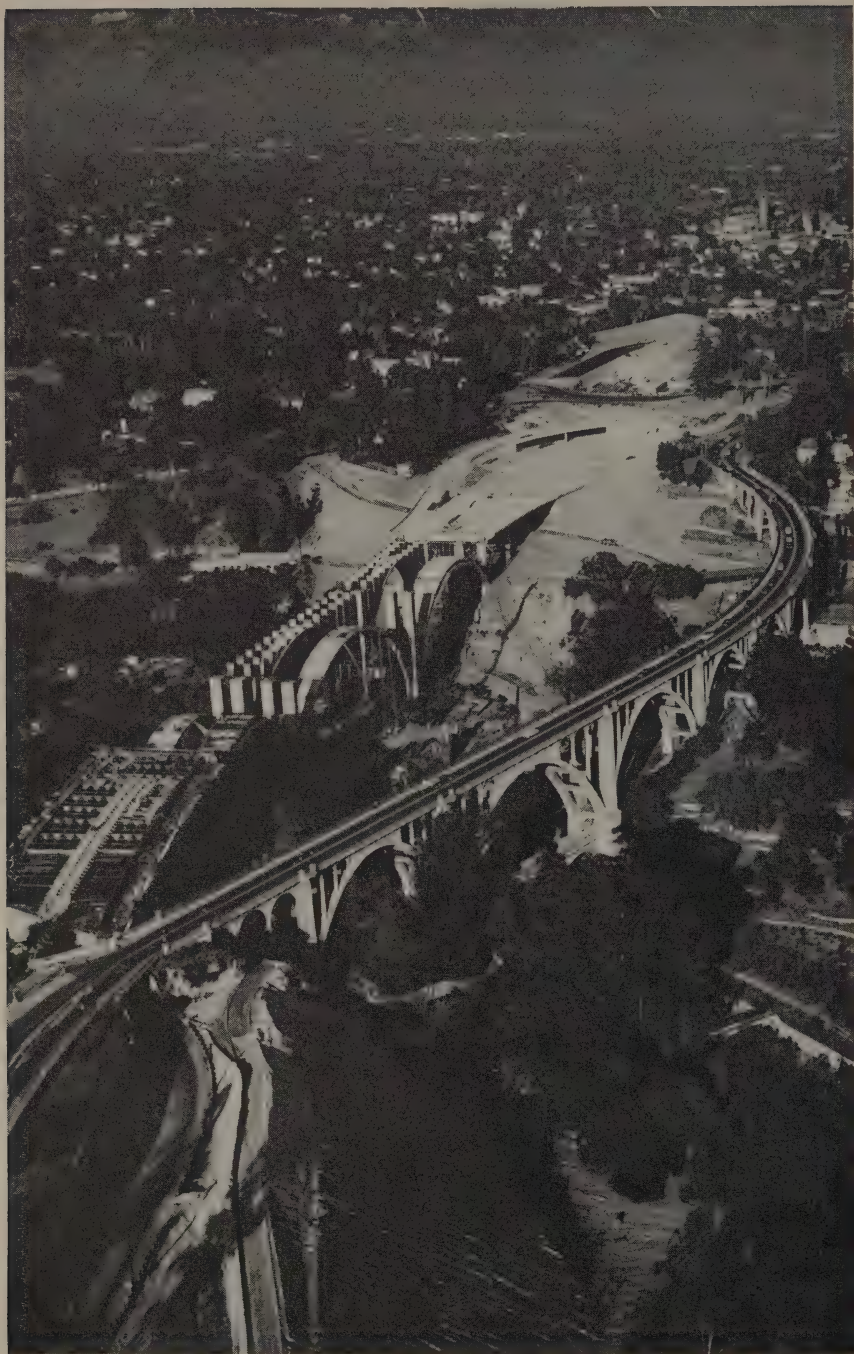
The amount of work accomplished and the rapidity with which it has been handled was made possible by the close liaison and cooperation of Headquarters Design Department with district design sections. Through frequent contacts of Headquarters Design coordinators with the districts, it has been possible to incorporate into all plans for pending work those design features proven by traffic investigations to be required for the successful operation of a modern highway facility.

New Design Manual

A new Design Manual, which is to be a section of the new Planning Manual, has been prepared. This new manual incorporates all of the current design instructions and is arranged in loose-leaf form so that it can be kept up-to-date at all times.

Freeways

During the fiscal year ending June 30, 1952, the Design Department reviewed and made recommendations on 60 proposed freeway agreements. Route adoptions and right-of-way appraisals are also reviewed by the department prior to their approval and release.



AERIAL CONSTRUCTION VIEW OF REINFORCED CONCRETE MULTIPLE ARCH BRIDGE across Arroyo Seco on Colorado Street in Pasadena, old bridge in foreground



LAKEWOOD BOULEVARD UNDERCROSSING on Santa Ana Freeway, showing connecting ramps. Federal aid project.

Research and Special Studies

The Design Department has actively participated with the Institute of Transportation and Traffic Engineering of the University of California at various meetings held throughout the State, in the presentation and discussion of various design problems.

Several major revisions of the design policies of the American Association of State Highway Officials have been reviewed and commented upon by the Design Department during the fiscal year.

A special research problem now carried out is a "Truck Weight and Pavement Study" sponsored by the Bureau of Public Roads and coordinated by the Design Department, with the Materials and Research, Construction, and Planning Survey Departments taking an active part. This is a long-range study which involves the collection of data in relation to truck weight and pavement conditions at various locations throughout the State. Weighing data on trucks have been completed on the 20 test sections, and pavement condition and sampling has been completed on all but six of the test sections. It is hoped these studies will lead to a fuller understanding of the requirements for structural design of pavements and subgrades.

Hydraulic studies have been made on several important drainage problems and assistance has been made available to the districts concerned in special hydraulic investigation or special problems for the development of proper designs.

Cooperation With Other Agencies

As in previous years, the Design Department acted as a coordinating agency between the Division of Highways and other state agencies for whom the construction of road and bridge improvements was undertaken.

In conjunction with the Civil Aeronautics Administration and the Bureau of Public Roads, this section continued to investigate and report on proposed airport improvement projects involving the expenditure of federal funds insofar as those improvements might affect state highways.

Roadside Development

The control of erosion by planting of highway projects has become an accepted element of modern highway planning and improvement. Its value in the protection of the increasing highway investment is no longer questioned.

The process of inclusion of slope stabilization where necessary is now simplified by review of each typical section by the Landscape Engineer when submitted for Headquarters approval. Plans, specifications and estimates for such work have become more or less standardized, precluding much of the individual field review originally required.

Emphasis is now being placed on functional plantings, which are beneficial to the roadside or to traffic, such as erosion control, weed control, fire control, headlight-glare elimination, traffic noise abatement and traffic delineation.



RECENTLY COMPLETED MOKELUMNE RIVER BRIDGE on Mother Lode Highway at Amador-Calaveras County line. Old bridge on right.

All plans, specifications and estimates covering roadside development are prepared in Headquarters, being in turn forwarded to the various districts for their review, signature and final submission to Headquarters. Due to the special nature of the work, this procedure has resulted in uniformity and economy of plan preparation.

Inspection of planting projects while under construction is also a responsibility of the landscape section. Close coordination of design, construction and subsequent maintenance has resulted in improved techniques, lower maintenance costs and general improvement in roadside appearance.

TRAFFIC

The basic functions of the Traffic Department remained unchanged during the last fiscal year.

California maintained its top position in traffic and highway engineering, as based on the Institute of Traffic Engineers' ratings in the National Safety Council Contest. For the second straight year California finished first in its class, which comprises the high population and heavy traffic states, and for the first time in the history of the contest California was awarded first place on a national basis.

Organization and General Duties

The Traffic Engineer is responsible for the organization of Headquarters and the district traffic departments and for the standardization of traffic engineering practices throughout the Division of Highways.

Included among the general duties of the Traffic Section is the preparation of necessary reports on traffic matters for the use of the State Highway Engineer, the handling of the large volume of correspondence with the public regarding traffic problems, compiling of pertinent data for and participation in work on committees of the American Association of State Highway Officials and of the National Highway Research Board.

Traffic Data

All annual and monthly traffic counts are supervised by the Traffic Section. Average daily traffic, vehicle miles of travel, and other data are developed from the counts, and traffic data are furnished for highway budgets and other highway activities.

The estimated travel on the rural State Highway System during the Calendar Year 1951, as based on the annual traffic census and the monthly counts, was 14,016,000,000 vehicle miles. This represented an increase of 9.6 percent over 1950 traffic.

Estimated travel of freight vehicles on the rural State Highway System in 1951 was 2,226,000,000 vehicle miles, an increase of 3.6 percent over 1950. Freight vehicles constituted 15.9 percent of the total traffic, slightly less than the 1950 figure, as passenger vehicle traffic increased at a somewhat higher rate than trucks during the past year.

Average daily traffic on the rural State Highway System increased from 2,786 in 1950 to 3,063 vehicles in 1951. Two-lane roads carried an average of 2,174 vehicles per day, while the composite daily volume on



CONGESTED TRAFFIC CONDITIONS on U. S. 101 near Santa Rosa

multilane highways was 13,154 vehicles. Single daily volumes in excess of 100,000 vehicles were counted on three separate urban freeways during the year, with the maximum count slightly over 105,000 vehicles.

Accident Analysis and Research

All reported accidents on the rural portions of the State Highway System, received through the Department of Highway Patrol and the Maintenance Department of the Division of Highways, are located and coded for machine sorting and tabulating. The method produces various accident statistics, including accident rates for each highway section and the annual report "Motor Vehicle Accidents on Rural State Highways."

Points of accident concentration and high accident highways are plotted and the accident patterns analyzed to determine appropriate corrective measures. Accident studies are made and data furnished for their proper consideration among other warrants in the review of project reports, work order requests, and in the preparation of the annual highway budget.

A number of studies looking toward the improvement of design standards have been initiated. These are based primarily upon the behavior of drivers as revealed by analysis of the large mass of data provided by detailed records of accidents. Under way at the present time is a study covering the relation of accidents to the type and width of median strips, and another covering the relation of traffic volume to accidents at signalized intersections.

Geometric Standards and Traffic Service

Geometric design standards are established through cooperation with the Design Section and through review of plans for factors affecting the safe and orderly movement of present and future traffic.

Traffic information essential for the preparation of all project reports is assembled; and when submitted, all project reports are thoroughly reviewed with respect to elements affecting traffic service. Similar review is made of day labor work order requests, contract change orders, encroachment permits, and various service agreements.

Research projects completed or under way during the year include a report, "Intersection Accidents on Divided Highways Related to Traffic Volume," and a study covering detector spacing, timing, and delay at traffic-actuated signals.

Traffic Control

This section has concern for the type and location of all signs, signals, pavement markings and illumination on the State Highway System. It also handles the surveys and studies required in the establishment of speed zones and parking regulations.

During the fiscal year, 49 contracts for traffic control signals and 67 contracts for intersection and freeway illumination were undertaken.

Speed zone surveys during the year resulted in orders for the establishment of 268 zones and the relinquishment of 11 previously existing zones. While the total length of 25-mile-per-hour zones remained virtually unchanged, 35-mile-per-hour zones increased 58 miles, and 45-mile-per-hour zones were increased 45 miles during the fiscal year.



TRAFFIC ON U. S. 40 AT WATT AVENUE (McClellan Field intersection) in Sacramento County

Improvement in signing practices during the year has been directed toward a larger letter size and a more easily read message. In the signal field, notable advances have been made in vehicle-actuated progressive systems.

SPECIAL STUDIES AND HIGHWAY PLANNING SURVEY

A principal function of this section is the conduct of the necessary investigation, study, and preparation of reports on various matters called for by legislative resolutions. During the year the following studies of this nature were completed:

Senate Concurrent Resolution No. 16—A study to determine where it may be necessary to provide for the construction of four-lane highways on dangerous grades and curves on U. S. 101, from San Francisco to the California-Oregon boundary; Senate Resolution No. 44—Freeway construction on U. S. 99 from Lodi to Sacramento; Senate Resolution No. 62—Freeway construction from the end of the North Sacramento Freeway to east of Roseville on U. S. 40; House Resolution No. 146—Improvement of Santa Monica Boulevard between Croft Avenue and Doheney Boulevard; Senate Resolution No. 199—to complete surveys and specifications for widening to four lanes divided that portion of State Highway Routes 8 and 208, between U. S. Highway 101 and U. S. Highway 40.

A considerable amount of data has been assembled for the use of the legislative Joint Fact-Finding Committee on the State Highway System and on Major Highways in Metropolitan Areas. Maps were prepared for each of the 58 counties, showing the accomplishments during the 1947-1952 five-year period toward eliminating the highway deficiencies, the deficiencies as they presently exist, and the funds budgeted for further work.

An inventory of the State Highway System has been conducted to obtain a detailed summary in a form readily adaptable for machine processing and tabulating of geometric features, roadside development, alignment and grade, and structural condition. This information will be available for determining highway deficiencies and planning necessary improvements to the system.

The quarterly weighing of trucks at 20 selected stations, which began in the previous year, was completed. In addition, the annual weighing of trucks that has been in progress for a number of years was continued at these same stations.

Exploratory work was started on methods of conducting speed tests on typical sections of the rural State Highway System for correlating the road features and conditions to estimated design speeds.

Preliminary work has been started on a state-wide motor vehicle use study, to be based on an interview type of survey covering approximately 0.5 percent of the state population and to be conducted under the supervision and control of the National Bureau of the Census.

The rural road inventory, a cooperative project with the counties, has been under way in 11 counties. The inventory and resulting maps are complete for Butte, Sierra, Nevada, San Mateo, Orange, and Yuba

Counties. The inventory is complete and mapping in progress for San Diego, San Bernardino, and Humboldt Counties. In Kern and Stanislaus Counties field work has been completed. Extensive aerial photographic coverage of the State for use in this mapping work has been arranged for by cooperating with the Department of Agriculture in aerial surveys.

The especially equipped vehicle which has been developed for making low cost alignment and gradient surveys has been used successfully on some 8,000 miles of state highways and county roads. The method has proven very valuable in securing inexpensive data on those highways and roads for which no formal surveys are available, and on those highways where surveys do exist it is a means of securing an added fund of material in a form that can be readily used.

Since the 1950 Bureau of Census figures have been released, it has been necessary to review the boundaries of urban areas already established and to make new ones for those places that have acquired a population of 5,000 or more. Of the 83 urban areas, 29 have been completed during the year.

The annual corrections to the County Road System maps have been made from data submitted by the various counties.

The increased emphasis on the use of aerial photography resulted in the setting up of a section in the planning survey to serve as a "clearing house" for all related activities throughout the division. The section will maintain a complete file of photo indexes of aerial photographic coverage by state and federal agencies, and a partial file of prints which are available for loan. A catalog with maps listing available aerial photography is being prepared for departmental distribution.

A study to determine a satisfactory and economical method for obtaining traffic information on state highways within cities is under way, using all the cities in District III for the pilot study.

Buildings and Plants

Appreciable progress has been made in the program to relieve the critical shortage in buildings and other plant facilities needed to efficiently handle the heavy schedule of work now under way and in preparation of plans for expected future requirements.

District office buildings in San Bernardino, San Diego and Marysville are now under contract, with construction well advanced towards completion. Construction of the annex to the Public Works Building in Sacramento although delayed by a carpenters' strike is now progressing satisfactorily, with completion scheduled early in 1953.

Additional property or new sites for district office buildings have been provided for at Eureka, Redding, San Luis Obispo, Bishop, Stockton and Fresno. The Division of Architecture is now completing plans for the district offices located at Eureka, Redding and Bishop, and also a new Headquarters Laboratory located at Sacramento. In addition, the Division of Architecture has started the preliminary planning work for the district offices located in San Luis Obispo and Stockton. District Headquarters shop and maintenance buildings are also under design for San Bernardino and Stockton.

With the exception of ordinary maintenance and minor building improvements, the entire building program is being carried out in close cooperation with the Division of Architecture.

BUDGET

The Budget Section has as its major function the preparation of the annual budget of the Division of Highways for submission by the State Highway Engineer to the Director of Public Works and the California Highway Commission for their consideration and adoption; and, when and as approved by the commission, the exercise of those controls necessary to assure adherence to its provisions.

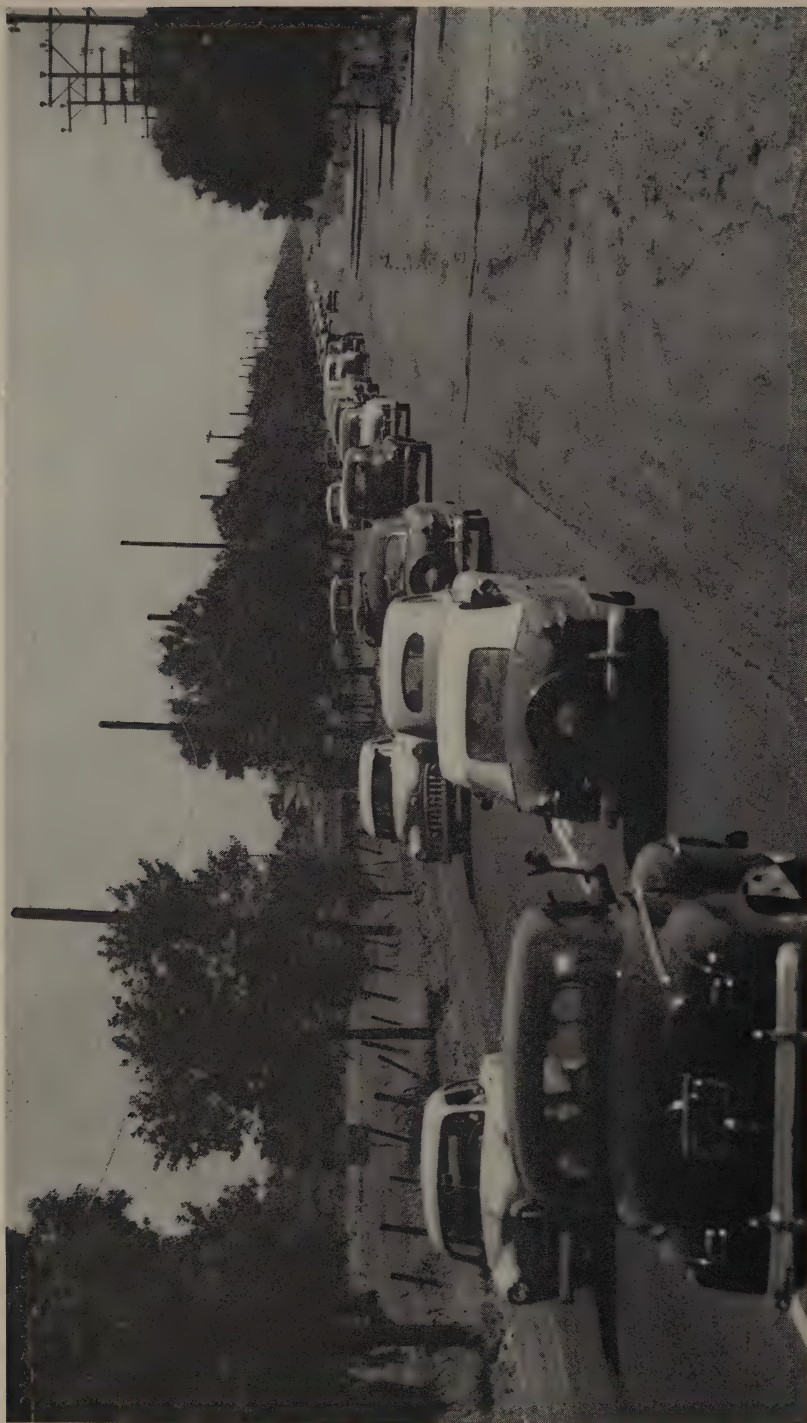
To better understand the functioning of this section, it is essential to note that by reason of various constitutional and statutory provisions the budgeting and expenditure of funds by the Division of Highways differs markedly from the more normal situation where agencies operate on a budget with precisely fixed and known limits, both as to time and the amount of funds available. Funds for support of the activities of the Division of Highways come principally from the four state sources: gasoline tax, motor vehicle fees, use fuel (diesel) tax and transportation tax; plus any moneys received under the various federal aid highway acts.

Correspondingly, the main expenditures are for the construction of new highway facilities, the reconstruction and maintenance of existing highways, and the administration of these tasks. Since both the revenue from these tax sources and the costs for highway construction are things extremely sensitive to the general social and economic conditions, they cannot be predetermined with certainty for any extended period. And, as this interdependency of revenue and expenditure definitely controls the activities of the division, budgeting necessarily becomes a continuous process of adjustment and readjustment.

Since by far the largest contributor is the actual user of the highways, foreknowledge for probable fluctuation of revenue from this source is constantly sought through regular review of traffic trends based on the long-established traffic counts which are at all times kept currently valid by monthly checks at representative locations. Close collaboration must also be maintained with the various other state departments concerned with the collection and disposition of revenues which in whole or in part are allocated to highway purposes.

No changes occurred during the year in the normal sources of revenue or in the various taxation rates. Mention should, however, be made of one extraordinary item of revenue received during the year, namely, the return of approximately \$6,520,000 previously advanced for the construction of approaches for the San Francisco-Oakland Bay Bridge.

This fiscal year, 1951-1952, was the last of the first five-year period under the Collier-Burns Act during which a minimum of 50 percent of the funds available for state highway construction purposes were to be allocated to each of the several counties in accordance with the provisions of the act commonly known as the Mayo Amendment. These minimums



TRAFFIC CONGESTION on two-lane section of U. S. 99-50 near Florin Road south of Sacramento

were fully met in all counties. Under the second five-year period, beginning with the 1952-1953 Fiscal Year, the percentage to be distributed according to this amendment is increased to 55 percent. Allocations under the Federal Aid Act of 1950 end with the 1952-1953 Fiscal Year. Provisions of the new Federal Aid Act of 1952 call for annual allocations to California for the two succeeding years in an amount approximately 10 percent greater than was provided by the act of 1950.

Continually mounting expenditures for the maintenance of the system, due to increased costs for all the many items of materials, equipment and labor, together with heavy increases in traffic use, were further burdened during the past winter by the cost entailed by unprecedented snowfall on all mountain routes. This trend of mounting costs brings into sharp relief a situation in budget controls which is rapidly becoming of major concern. By statutory provision, expenditures for "general administration and maintenance" are limited "to an amount not exceeding the net revenue derived from 1 cent per gallon tax on motor vehicle fuel." While it is true that with increased traffic there is a corresponding increase in the fuel consumed, it can readily be established that the costs of all things which enter into these expenditures have risen at a much more rapid rate than the rate of traffic increase. To further worsen the situation is the fact that each year more vehicles are using diesel fuel, which legally is not "motor vehicle fuel," and this, in effect, proportionately reduces the funds allotted for maintenance, which normally could be expected to accrue from increased traffic. The eventual result of this generally unequal struggle if allowed to continue unchanged, quite obviously requires no elaboration, and it is thought that the revenue from diesel fuel should be included in computing the one-cent limitation for general administration and maintenance.



"SILHOUETTES AGAINST THE SKY." Erecting steel for Bayshore Freeway viaduct in San Francisco. Federal aid project.

BRIDGES

The increased emphasis on freeways in metropolitan areas since the enactment of the Collier-Burns Act and the consequential increase in number of structures required for street grade separations have resulted in expansion of the Bridge Department's program to such an extent that at the present time out of each \$3 budgeted for highway construction approximately \$1 is for structures. This accelerated program, coming as it did at a time of federal control of critical construction materials, rising construction costs and a serious shortage of trained technical personnel, has necessitated the exercise of considerable ingenuity on the part of Bridge Department engineers in order to get the maximum required work under construction at minimum cost in a minimum length of time.

USE OF CRITICAL MATERIALS

During the present national emergency the Federal Government has restricted the allocation of critical materials for highway purposes to such an extent that means had to be devised for the frugal use of these materials and the substitution of other materials wherever feasible.

Welded Steel Construction

Steel, one of the primary materials used in construction of bridges, presented the greatest problem. Steel is used in the form of bars as reinforcing in concrete structures, in the form of rolled beam shapes to carry bridge decks and in the form of built-up sections using combinations of flat plates and rolled shapes for girders or trusses for longer spans. The Federal Government placed drastic restrictions on the use of rolled shapes. Under these conditions rolled shapes were used only where beams built up from plates by welding or reinforced concrete were impracticable. Where rolled beams or riveted, built-up sections of shapes and plates ordinarily would be used the Bridge Department did considerable pioneering in the use of welded plate sections. This all-welded steel design, of which the Division Street Interchange in San Francisco, discussed elsewhere in this report, is an outstanding example, has required close cooperation and coordination with steel manufacturers, fabricators and metallurgists and has attracted attention and discussion throughout the United States.

Prestressed Concrete Structures

The Bridge Department has pioneered in the West in the use of prestressed concrete for bridges, and since the completion of the prestressed concrete pedestrian bridge over the Arroyo Seco Flood Channel in Los Angeles, as described in the Fifth Annual Report, this type of structure has been the subject of further study by the Design Section. Prestressed concrete permits lighter and shallower spans than can be effected with

conventional reinforced concrete design and also requires less concrete and steel. Only a nominal amount of ordinary reinforcing steel is necessary, the main reinforcement consisting of high strength steel wires which are subjected to high tensile stress before any load is put on the girder, thus imparting a compressive stress on the concrete of the girder. The lighter weight of prestressed concrete is an advantage in building over traffic by precasting girders and lifting them into place, thus eliminating falsework. The use of shallower decks, is of considerable economic importance in the construction of the many highway separation structures where grade restrictions are imposed by existing roads or streets. Since the successful completion of the Arroyo Seco pedestrian bridge, engineers of the Bridge Department have cooperated with other technicians in this field and kept posted on the advances which have been made. Several prestressed concrete structures have been designed by the Bridge Department during the past fiscal year and it is anticipated that construction will start on some of them in the near future.

Renewal and Salvage of Existing Bridges

Other methods used to conserve critical materials are the widening, redecking and strengthening of existing structures which, in normal times, economy might indicate should be replaced, and the use of steel beams salvaged from bridges which have been replaced.

ENGINEERING PERSONNEL

The continuing increase in structural work demands an increase in the number of structural designers and construction engineers. The general shortage of engineers, and the limited supply of structural engineers in particular, has made it necessary to carry on with younger and less experienced personnel. The Design Section of the Bridge Department has inaugurated an extensive in-service training program by conducting classes in bridge design. The classes include instruction in the latest design practice for the several types of bridge structures now in use on the highway system. With the benefit of this training the younger men have demonstrated their abilities and have done an admirable job in filling in where older and more experienced engineers were not available. In order to reduce time and personnel required in preparing plans and also to reduce engineering costs the Bridge Design Section has devised and improved upon various short-cuts. Information given on plans has been reduced to the bare minimum necessary for construction and numerous design charts and tables have been developed and are being used to decrease routine calculations wherever possible.

BRIDGE CONSTRUCTION COSTS

At the beginning of the 1951-52 Fiscal Year, bridge construction costs were at a peak due primarily to the confusion and uncertainty caused by the Korean situation. The Bridge Department construction cost index (based on 1940 = 100) had reached a high of 260. During the third and

fourth quarters of 1951, as order developed in the construction industry, individual contracts varied widely but average construction costs held fairly level at an index of approximately 255. High production, improved distribution of materials and elimination of local shortages resulted in a cost decline in the first quarter of 1952 to an index of about 235. Bridge construction costs held at this level through the balance of the fiscal year.

BRIDGE PLANNING AND DESIGN

Preparation of design plans for bridges in the highway budget and long range planning programs was advanced during the fiscal year through continued close liaison with other departments of the Division of Highways and various agencies whose interests and activities are related to bridges.

Project Report Reviews

One of the duties of the Planning Section is the review of project report features pertaining to bridge and grade separation structures. Benefits are obtained by closely relating preliminary structure layouts and economic studies with highway geometric planning and bridge design.

Preliminary Surveys and Reports

During the fiscal year surveys were made and reports were written in connection with the investigation of 254 bridge sites. These projects included structures in current budgets as well as structures scheduled for future financing. The total estimated construction cost of structures for which these reports were prepared is approximately \$50,000,000. Tangible progress was made toward the goal of having completion of designs approximately 2 years ahead of construction. At the close of the fiscal year all preliminary investigations for 1952-53 Fiscal Year projects were complete and approximately 50 percent of the sites of proposed bridge work in the tentative 1953-54 Fiscal Year program had been investigated.

Foundation Investigations

Specially trained engineering geologists are continuing the exploration of foundations at proposed bridge sites and have become increasingly proficient at testing the carrying capacity of soils for spread footings and various types of piles. The resultant economy of both design and construction has proved this type of work to be well worth while. Recommendations of the engineering geologists have permitted the use of spread footings in some cases where expensive piling would otherwise be indicated. Actual load testing of piling has supported the investigation conclusions and shows considerable progress toward achieving an increase in allowable design loads on piles and in decreasing the requirements for their length. The section has continued with experimentation and development of new methods and equipment for foundation explorations and it is anticipated that further economies in design and construction will be forthcoming.



COLORADO STREET VIADUCT under construction on Colorado Freeway in Pasadena

Design

During the fiscal year the Design Section prepared designs for improvement of construction of 260 individual structures including plans for 66 highway separation structures, 17 railroad-highway separations, 37 bridges, 10 pedestrian structures and one tunnel. In addition, plans were prepared for strengthening, reflooring or widening 125 bridges. Plans were also prepared for many miscellaneous types of highway structures such as special retaining walls, pumping plants for highway drainage and special culverts. The majority of the structures are financed in the 1951-52 or 1952-53 Fiscal Year budgets; however, many of them are proposed for financing in future budgets and are part of the advance planning program of the Division of Highways.

Architectural Studies

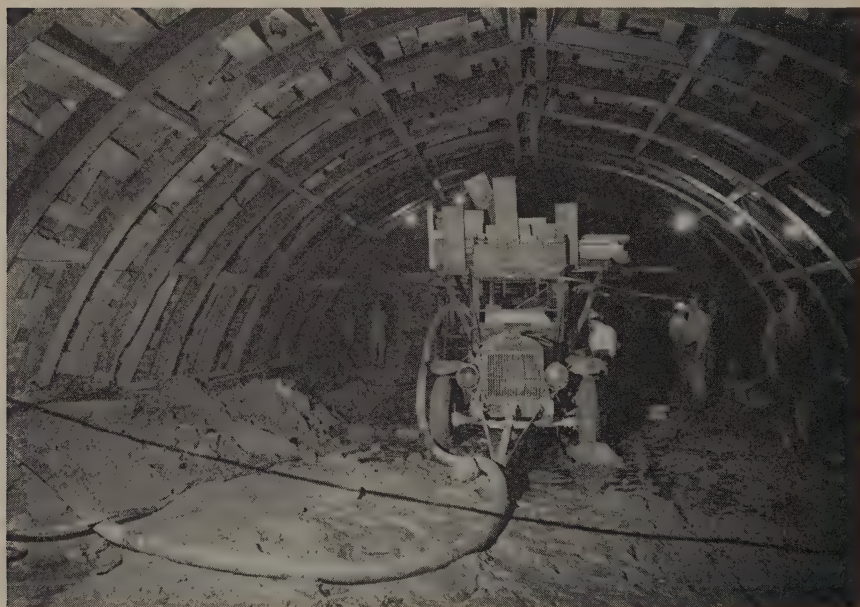
Of increasing importance and value in the design of structures, particularly those on freeways, is the work of the architectural staff in the Design Section. To the average person it is difficult to visualize the completed structure from structural plans. In important and complex situations, as in the case of the large Colorado Street Arch Bridge over the Arroyo Seco in Pasadena now under construction, scale models are sometimes used; this, however, is expensive. The next best solution to the problem is an artist's sketch. Such sketches have been prepared for many structures on freeways and also for large and important structures on other roads. Depending upon the particular study at hand and the individual structure, a sketch may show a whole section of the State with its important roads and connections or it may show a section of a freeway including several structures. Again it may show only one structure with important details shown separately. In some cases a sketch may combine any or all of these features. There has been considerable increase in this type of work during the past fiscal year. The sketches are used for many purposes including information to the public and interested organizations as well as studies by engineers.

Division Street Interchange

The most outstanding design during the past fiscal year was for the Division Street Interchange structure in San Francisco which will have a total construction cost of approximately \$20,000,000. This structure, when completed, will have three main legs intersecting near the junction of Division Street and Ninth Street. To the north and east of this point will be a leg connecting with the San Francisco-Oakland Bay Bridge. The Thirteenth Street Viaduct runs nearly due west from the intersection, a distance of approximately two-thirds of a mile, to a connection with South Van Ness Avenue. The southerly leg will carry the Bayshore Freeway which connects the city of San Francisco with the peninsular counties. In addition to these three main legs there are a number of interconnecting ramps and connections to city streets. The entire structure will be elevated, passing over numerous city streets and railroad tracks and will be of reinforced concrete, steel beam and all-welded steel construction.



SOUTH PORTAL OF GAVIOTA TUNNEL on U. S. 101 in Santa Barbara County



OPERATIONS AT WORKING FACE OF TUNNEL at Gaviota Gorge on
U. S. 101 in Santa Barbara County

Due to the over-all size of the project and in order to schedule construction properly and coordinate right of way clearance and relocation of utilities and railroad tracks, it was necessary to divide the project into six principal units. Four of these units have been let to contract, the first in June, 1951. Relocation of utilities and railroad tracks, and construction of substructure is well under way. The entire project will require the use of 52 million pounds of structural steel, all of which will be fabricated in Pacific Coast shops. Fabrication of structural steel for the first unit was well under way at the end of the fiscal year and portions of the substructure were nearly ready for erection of steel.

San Francisco-Oakland Bay Bridge Alterations

The Bridge Department Design Section, in conjunction with the Engineers of the San Francisco-Oakland Bay Bridge are studying and making plans for alterations to the bridge called for by the Toll Bridge Authority. These plans, for alterations on Yerba Buena Island, the Toll Plaza, upper and lower deck traffic lights and a painting scaffold gantry on the bridge, were started during the year and were well under way at the end of the fiscal year. One contract has been awarded for construction of the painting gantry.

BRIDGE RESEARCH

The operations of the Bridge Research Section of the Bridge Department continued as described in previous reports. The difficulty of securing the services of additional technical engineers of specialized training has impeded the section in expediting their many and varied assignments.

The primary functions of this section are to handle specialized and technical problems, especially hydraulic and economic studies and reports including hydraulic studies of waterway requirements for bridges and culverts, special studies of erosion control and embankment protection and various other investigations of hydraulic and structural features. Studies also include appraisals of damages to bridges by traffic accidents and to private property by interference with drainage. Special and highly technical studies and reports of this nature are becoming of greater importance in connection with highway and bridge problems and in legal actions.

The head of the section is a member of the four-man Bank Protection Committee, formed of one man each from the Bridge, Construction, Maintenance and Design Departments of the Division of Highways, which is studying the many bank protection problems in the State. This work is a continuing project and a report is being compiled on the subject. In special and important situations the committee acts as consultants to advise on major problems of this nature on state highway projects. After a lengthy study, the committee issued a report on culvert practice which has been of great value not only to the State but to many other states and political subdivisions in connection with their various culvert requirements. A revised edition of this report is now being prepared.

RAILROAD GRADE SEPARATIONS

On June 30, 1951, there were a total of 22 railroad grade separation structures under contract, 20 for vehicular traffic and two for pedestrians. Nine of these railroad-highway grade separations were completed during the 1951-52 Fiscal Year, and contracts were awarded for 22 additional railroad-highway separations and two railroad-walkway separations, making a total of 37 grade separations, four of which are pedestrian structures, under construction as of June 30, 1952. Eight of the separation projects awarded during the year eliminated existing grade crossings and the railroads contributed 10 percent of the cost. At one of the crossings, the railroad was required by its franchise obligation to bear the additional cost of the structure necessary to carry the railroad. The balance of the structures were on new alignment and were financed with state and federal funds without railroad contribution.

During the year contracts for painting of six railroad-highway separation structures were let and repairs were made to three structures involving railroads.

RAILROAD GRADE CROSSINGS

One of the functions of the Bridge Department is the maintenance of records of all railroad grade crossings on the State Highway System, including existing protection, traffic, accident records, etc. The department processes all recommendations for additional protection, applications to the Public Utilities Commission and agreements with the railroads for construction or alteration of grade crossings.

Twenty-three projects in the 1951-52 highway construction program and 10 federal-aid secondary county road projects included the construction or alteration of one or more railroad grade crossings, requiring in each case an agreement with the railroad and application or notice to the Public Utilities Commission, before the highway project could be cleared for advertising.

The apportionment of cost for construction or alteration of railroad grade crossings is covered by a master agreement between the Division of Highways and the major railroads of the State, adopted August 28, 1950, revised November 7, 1951. This master agreement has greatly expedited completion of individual agreements without necessity of referring the matter to the Public Utilities Commission for apportionment of cost, thus avoiding delay in advertising the highway work for bids.

Following is a tabulation of the railroad grade crossings on the state highway as of June 30, 1951, and June 30, 1952, together with a tabulation of the protection at these crossings.

<i>Railroad grade crossings on state highways</i>	<i>As of 6-30-51</i>	<i>Net changes 1951-52 F. Y.</i>	<i>As of 6-30-52</i>
Main and branch lines *-----	650	—4	646
Spur and other tracks-----	259	—9	250
Totals -----	909	—13	896

* Includes crossings of private railroads.

During the past fiscal year 13 grade crossings of state highways were eliminated by changes of highway alignment, construction of grade separations or abandonment of railroad tracks.

<i>Railroad-State highway grade crossing protection</i>	<i>As of 6-30-51</i>	<i>As of 6-30-52</i>
Flashing lights and automatic gates-----	6	6
Flashing lights -----	145	143
Wigwags -----	238	237
Traffic lights at intersection of road and railroad with highway-----	55	54
Total automatic protection-----	444	440
Manual gates -----	8	8
Flagmen -----	16	10
Total manual protection-----	24	18

The net reduction of crossings with automatic protection and manual protection as indicated above is the result of relinquishment of crossings on account of relocation of portions of state highway routes and elimination of crossings by grade separation.

During the year installations of automatic railroad crossing protection were completed at 12 railroad crossings on state highways and projects were initiated for installations at 25 additional crossings. Also, installations were completed at four railroad crossings on federal-aid secondary routes and initiated at five additional FAS crossings.

BRIDGE OPERATIONS

The Operations Section of the Bridge Department is charged with the administration of the various phases of construction and maintenance of bridges and structures. Due to the increasing work on freeway construction, more bridges and structures are now under contract than at any previous time.

San Francisco Bay Area Freeways

In the San Francisco Bay area construction continued on both the Bayshore and Eastshore Freeways. Seven separation structures were completed on the Eastshore Freeway between the south city limits of Oakland and San Lorenzo, and work was started on nine other separation structures to extend the freeway from San Lorenzo to the southeast city limits of Hayward. Near the southerly terminus of the Eastshore Freeway at San Jose work was started on three bridges and one separation structure.

On the Bayshore Freeway in the City of San Francisco work was started on two more contracts for the construction of the Division Street Interchange as previously described. In the City of San Mateo a contract was awarded which includes an interchange between the Bayshore Freeway and Third Avenue. This interchange involves the construction of one separation structure, the widening of the San Mateo Creek Bridge, the construction of two bridges on off- and on-ramp over San Mateo Creek and the construction of a pedestrian overcrossing.

In Marin County, work is progressing on four bridges and separation structures to provide divided traffic lanes for U. S. Highway 101 south and north of San Rafael.

During the fiscal year work was started on the construction of six separation structures in Contra Costa County for a section of freeway from Pittsburg passing Camp Stoneman to Antioch.

Sacramento Area Freeways

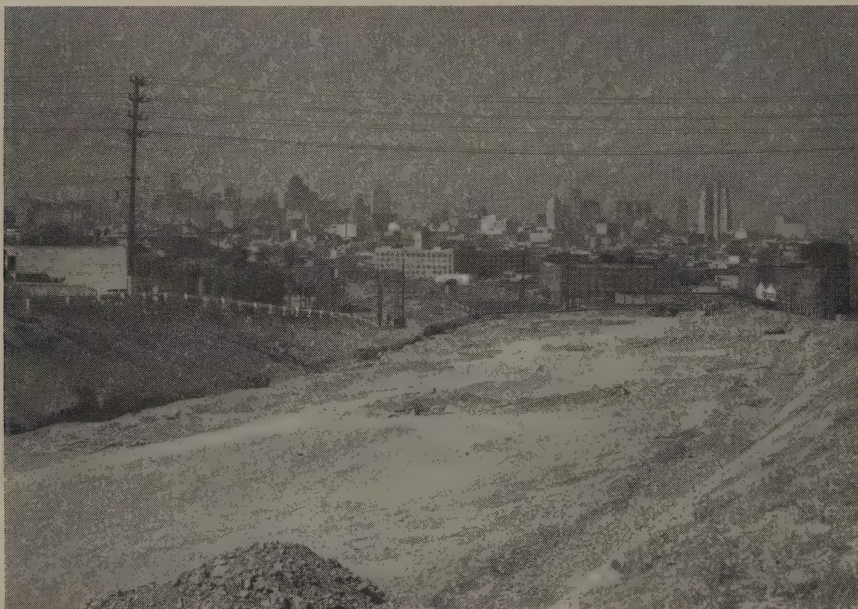
In the Sacramento area, seven separation structures were completed for the West Sacramento Freeway between the Yolo Causeway and the Tower Bridge. The new easterly approach to Sacramento from the North Sacramento Freeway via State Route 98 is progressing with completion of the substructure and the award of the contract for the superstructure of the American River Bridge and with the start of work on two railroad underpasses at B Street and Elvas Wye in and adjacent to the north city limits of Sacramento.

Tulare Area Freeway

Two structures were nearly completed and six additional structures were started in connection with the Tulare through route which will take U. S. 99 traffic out of the business district of Tulare.

Los Angeles Area Freeways

In the Los Angeles area numerous street grade separation structures were completed on the various freeways and a large number of structures were put under contract.



FOUNDATION EXCAVATION FOR STEEL VIADUCT on Bayshore Freeway in City of San Francisco. Federal aid project.



PEDESTRIAN OVERCROSSING ON RAMONA FREEWAY in Los Angeles County showing spiral approach ramp. Federal aid project.

On the Hollywood Freeway, structures were completed during the fiscal year at Spring Street, Fountain Avenue, Wilton Place, Sunset Boulevard, Van Ness Avenue, Holly Drive, and Cahuenga Boulevard. All structures are now completed or under contract on the Hollywood Freeway from the civic center of Los Angeles to the junction with Cahuenga Boulevard.

On the Harbor Freeway, structures were completed at Third Street and Fourth Street and numerous separation structures are under construction as far south as Twelfth Street.

All structures are completed or under construction for the Ramona Freeway as far as its junction with Rosemead Boulevard. For a considerable distance the Ramona Freeway consists of two roadways, one on each side of the Pacific Electric Railway tracks. This necessitated the construction of three separation structures at each street separation, one under the railway tracks and one under each of the roadways. At some locations two additional structures were required to carry outer highways over the city streets.

Structure work on the Santa Ana Freeway has progressed southeast of Los Angeles to the San Gabriel River and in addition a large contract is under way in the City of Santa Ana which includes six major structures.

One structure was completed during the fiscal year on the Los Angeles River Freeway and five more were put under contract, including a large railroad grade separation structure at the junction of the Pacific Electric Railway and the Union Pacific Railroad.



AERIAL VIEW OF SANTA ANA FREEWAY looking southeasterly showing construction of Slauson Avenue-Pacific Electric Railway grade separation and Rio Hondo Bridge. Federal aid project.



PLACING MOVABLE ARCH-RIB FORMS on new Colorado Street Bridge across Arroyo Seco in Pasadena

Construction work is progressing satisfactorily on the new six-lane Colorado Street Arch Bridge across the Arroyo Seco in Pasadena. As mentioned in the Fifth Annual Report, this structure is a part of the largest dollar value single contract ever undertaken by the Division of Highways with the exception of the San Francisco-Oakland Bay Bridge. The over-all length of the structure is in excess of a quarter of a mile and the main spans consist of a central arch span 319 feet long with adjacent spans each 230 feet long. The design and construction are complicated by the fact that the structure is partly on a horizontal curve and the east end flares out to provide for off and on ramps. The arch ribs are being constructed with the use of movable steel falsework which can be slid sideways after the first rib is completed to be reused for the second rib. Work on the contract was about 50 percent complete at the end of the fiscal year.

San Diego Area Freeway

Six separation structures and three bridges were completed during the fiscal year on the Montgomery Freeway between San Diego and the Mexican border.

Oceanside Area Freeway

During the fiscal year three separation structures were completed on the freeway through Oceanside and Carlsbad and work was started on 10 separation structures, four bridges, two railroad grade separation structures and one pedestrian undercrossing. One of the bridge projects involved is the widening of the steel truss bridge over the San Luis Rey River.

Structures on Other Highways

A new structure was completed to carry southbound traffic over the Van Duzen River on U. S. 101 in Humboldt County. The old bridge at this location which was of substandard width for two-way traffic will now carry two lanes of northbound traffic over the river.

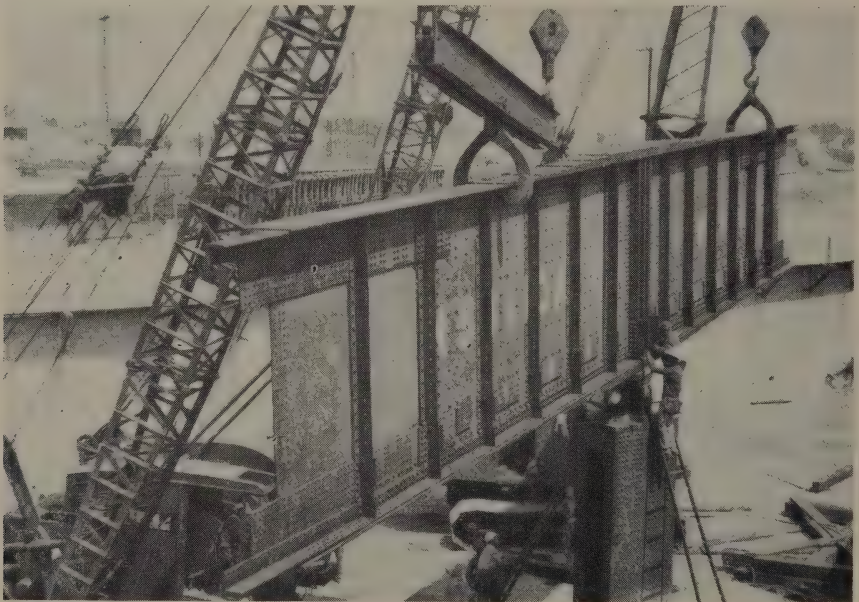
U. S. Highway 99E north of Chico was improved during the year with the construction of four new bridges and the widening of two others. Further improvement of U. S. 99E is in progress with the construction of 13 bridges on new alignment south of Chico and with the widening of 14 existing bridges south of Red Bluff in Tehama County.

On State Route 1 at the southern approach to Watsonville, in Santa Cruz County, the bridge across the Pajaro River was widened to provide a four-lane divided roadway.

Several structures were completed in connection with the four-laning of the Ridge Route over the Tehachapi Mountains between the San Joaquin Valley and Southern California.

Bridge Maintenance

Periodic field investigations and reports for repair, minor improvement and capacity rating of the approximately 4,850 state highway bridges and 50 state park bridges are handled by the Bridge Maintenance Section which is responsible for their proper maintenance in safe condition. Maintenance repairs and minor replacement not including painting, cost approximately \$220,000 during the 1951-52 Fiscal Year.



ERECTING STEEL PLATE GIRDERS for Simons Underpass on Santa Ana Freeway in Los Angeles County. Federal aid project.



NEW BRIDGE for southbound traffic across Van Duzen River five miles south of Fortuna in Humboldt County. Northbound traffic uses old bridge on right.

At the beginning of the fiscal year 119 state highway bridges were posted for restricted load or speed. New construction during the fiscal year eliminated 11 posted bridges but nine additional postings were made necessary by the continued deterioration of some of the remaining older bridges. One project during the year involved the strengthening of an existing bridge, thereby eliminating another posting. As of June 30, 1952, 116 bridges were posted for restricted loading or speed; the net reduction in the number of posted bridges during the year being only three.

Upon formal requests from local authorities a total of 131 county and city bridges were investigated, as required by law, resulting in 67 being posted for restricted loading. Bridges of the Division of Forestry and the Division of Beaches and Parks were examined and these agencies were given assistance on structural problems.

In addition to the above work the Bridge Maintenance Section performed the routine duties of reporting on and recommending work on railroad grade crossings and underpass drainage facilities on the State Highway System, prepared programs for replacement of critical structures to aid in budgeting and continued the compilation of structure and railroad crossing statistics.

The accompanying list of bridges includes all structures on the State Highway System including the San Francisco-Oakland Bay Bridge. Structures having assorted types and lengths of spans are shown by number and length on the basis of their main spans but areas have been

segregated and appear under the various type headings. Areas of bridges are based on the clear width of roadway between curbs plus the clear sidewalk width.

BRIDGES ON THE STATE HIGHWAY SYSTEM SEGREGATED AS TO NUMBER, LENGTH AND AREA BY STRUCTURE TYPE

(As of June 30, 1952)

Structure type	Number		Length (feet)	Area (square ft.)
	1952	1951	1952	1952
Concrete arch.....	272	277	45,204	992,748
Concrete girder.....	980	985	154,210	8,660,398
Concrete slab.....	1,659	1,599	91,509	3,312,615
Masonry arch.....	42	42	1,380	29,575
Subtotal concrete and masonry.....	2,953	2,903	292,303	12,995,336
Steel arch.....	4	4	1,618	25,194
Steel plate girder.....	109	103	83,850	1,935,116
Steel stringer.....	262	259	58,162	2,495,071
Steel deck truss.....	32	32	23,387	1,180,461
Steel pony truss.....	46	47	15,576	210,217
Steel through truss.....	93	92	118,340	1,524,562
Suspension.....	3	3	15,334	887,819
CMP multiplate and arch.....	47	47	1,045	36,422
Subtotal steel.....	596	587	317,312	8,294,862
Timber arch.....	6	6	1,434	11,306
Timber stringer.....	913	950	68,954	3,172,754
Timber deck truss.....	22	23	7,132	71,076
Timber pony truss.....	11	12	2,057	34,437
Timber through truss.....	6	7	1,458	24,779
Subtotal timber.....	960	998	81,552	3,334,551
Total bridges.....	4,507	4,488	690,650 (131 mi.)	24,604,550 (565 acres)
Underpasses.....	164	162		
Overheads*.....	104	102		
Combined bridge and overhead*.....	35	33		
State highway separations*.....	35	31		
Road undercrossings*.....	117	106		
Road overcrossings.....	119	112		
Pedestrian undercrossings*.....	114	105		
Pedestrian overcrossings.....	22	22		
Cattlepasses*.....	108	115		
Tunnels.....	17	17	12,226	
Retaining walls.....	10	10	9,738	
Miscellaneous.....	35	34	213	9,888
Total structures.....	4,874	4,845	712,827	24,614,438
Railroad grade crossings.....	896	909		

* Separations so noted are listed under structure type above.

NOTES: Four underpasses, four overheads and one bridge and overhead also serve as state highway separations, and two tunnels serve both as underpasses and state highway separations.



PAJARO RIVER BRIDGE on State Sign Route 1 at south approach to Watsonville at Monterey-Santa Cruz County line.

Bridge Maintenance Painting

Cleaning and painting of existing steel bridges on the State Highway System was continued at the accelerated rate started in the previous fiscal year. A total of 30 bridges were cleaned and painted in 16 contracts and minor paint work was done on four other bridges under day labor work orders at a total cost of approximately \$340,000. State Highway Maintenance forces are used to do painting under day labor work order in cases where only minor work is necessary to prevent the deterioration of paint on a bridge. Experience has demonstrated that a small amount of work when a paint coat first shows signs of deterioration often can postpone the necessity of a complete cleaning and painting job for a number of years. In cooperation with the Materials and Research Laboratory studies are continuing in search of improvements in paints, paint type combinations and application techniques. Experiments have been made with slow drying, medium-quick drying and quick drying paints as well as various paint formulas and application techniques and combinations thereof.

FEDERAL-AID SECONDARY BRIDGES

The federal-aid secondary highway program is administered by a separate organization as discussed elsewhere in this report. An engineer from the Bridge Department is assigned as liaison between the Bridge Department and the Federal-aid Secondary Department to assist and advise in all bridge matters relating to the county road portion of this program. During the past fiscal year, that portion of the federal-aid secondary program in which the Bridge Department was involved consisted of 19 federal-aid secondary bridge contracts under way for 22 bridges at an approximate construction cost of \$3,800,000. In addition four bridges and one railroad underpass were under way in federal-aid secondary road projects at an estimated construction cost for structures of about \$375,000. The county engineering staffs designed and prepared plans for 15 of these projects and construction engineering was performed by the counties on 14 of the contracts. This construction work was carried on in 16 different counties under the general supervision of state engineers.

SAN FRANCISCO-OAKLAND BAY BRIDGE, SAN MATEO-HAYWARD
AND DUMBARTON BRIDGES, CARQUINEZ BRIDGE—
OPERATION AND MAINTENANCE

San Francisco-Oakland Bay Bridge

Traffic and Revenue—The total number of vehicles which crossed the San Francisco-Oakland Bay Bridge between July 1, 1951, and June 30, 1952, was 30,703,245. This was a new high record for vehicular traffic and represented a gain of 3.47 percent as compared to the 29,672,520 of the preceding fiscal year. The daily average for the year was 83,889 vehicles.

Other previous traffic records were broken in April, 1952, with an average daily traffic of 86,732 vehicles, and on Friday, November 23, 1951 (the day after Thanksgiving Day), when a total of 102,613 vehicles crossed the bridge to establish a new high figure for a single day's traffic.

A total of 17,186,425 toll-paying interurban train and bus passengers crossed the bridge during the year, representing a decrease of 3.97 percent in comparison with the 17,896,426 passengers of the preceding year.

The revenue derived from vehicular tolls, interurban train passenger tolls, rents, interest, and miscellaneous services (exclusive of collections for roadside and tow services) was \$9,695,394.69. This was an increase of \$405,623.17 as compared with the previous fiscal year.

No changes in toll rates were made during the year.

Financing—By action taken by the California Toll Bridge Authority at its meetings of November 27, 1951, and December 18, 1951, there was effected a refinancing of the San Francisco-Oakland Bay Bridge through the authorization of an \$80,000,000 refunding and improvement revenue bond issue, and the issuance and sale of Series A bonds of the authorized issue in the principal amount of \$21,000,000. The Series A bonds are

dated September 1, 1951, and were issued for three purposes; namely, to redeem the outstanding bonded indebtedness, to repay to the State Highway Fund the cost of certain bridge approaches advanced by that fund at the time of the construction of the bridge, and to make certain alterations and improvements to the existing bridge facilities.

The first item of bridge improvement to be placed under construction contract consisted of scaffolding and track for the painting of the steel of the upper-deck floor system, which was awarded on May 2, 1952, as a result of bids opened on April 23, 1952. Other improvement projects contemplated under the Series A bonds were in the planning and design stages at the close of the fiscal year.

The Series B and Series C bonds, authorized by the Toll Bridge Authority for bridge approach construction on both sides of the bay, had not been issued at the end of the fiscal year. A question as to whether bridge revenue money could legally be used for this approach construction led the State Controller to reject a bill for certain printing work required in connection with the Series B and Series C bonds. A suit was instituted to force the Controller to pay the bill, but the case had not come to trial before the end of the fiscal year.

The Bond Resolution of November 27, 1951, provided that, with the new financing, the cost of bridge operation, which includes toll collection and related functions, as well as physical damage insurance premiums, would be paid from bridge revenue, leaving physical maintenance costs to be paid from the State Highway Fund as formerly. This specified arrangement was put into effect as of February 1, 1952, and is reflected in the accompanying Tables I and II.

Bridge Maintenance—The bridge painting crew consisted of two foremen, six leadmen, and an average of 43 painters, two laborers, and four highway equipment operator-laborers, which represented a personnel decrease of 5 percent below the crew of the preceding fiscal year.

Because of the attractive opportunities for other employment which generally prevailed during the year, considerable difficulty was experienced in maintaining a painting crew of adequate size.

The activities of the paint crews were largely centered on the painting of the floor systems, the webs and chords of the main bridge trusses, and the West Bay bridge towers above the upper-deck roadway. The Paint Department also cooperated with District IV in the cleaning and painting of the Funston Avenue Tunnel in San Francisco and the steam cleaning of the Broadway Low Level Tunnel in Oakland, and also with the Bridge Department and the Materials and Research Department in carrying out special paint tests on the Leffingwell Creek Bridge near Cambria in San Luis Obispo County.

The program of constructing tracks and scaffolds for the painting of the underside of the upper deck was continued. Contract No. 51-15TC2, which was approved in the latter part of the preceding fiscal year and provided for the installation of 1,150 feet of trackage on the spans on the curve at Yerba Buena Island was completed in December 1951. A contract for the completion of all the proposed track and scaffolding was awarded on May 2, 1952, as has already been mentioned above under the subject "Financing."

The total amount expended on general paint maintenance was \$366,736.61, exclusive of the contract work mentioned above.

The continued increase in the flow of vehicular traffic made it necessary to maintain emergency road services at a high level, with service available 24 hours a day. The emergency fleet consisted of five tow trucks, four special bridge service pickup trucks operated in periods of peak traffic, and a fire truck. Toward the end of the fiscal year, the fleet was improved through the acquisition of a modern heavy tow truck to replace the one which had been in bridge service over 15 years.

Structure Maintenance—As in previous years, continuous inspection of the bridge structure was furnished by employees who are specialists in such work. No unusual problems of structure maintenance occurred during the year and the repairs required were of a minor nature.

Traffic Studies—In accordance with established practice, semiannual counts of bridge vehicular traffic were made on Sunday and Monday, July 15 and 16, 1951, and on Sunday and Monday, January 13 and 14, 1952. Special counts and other traffic studies, including vehicular speed records, were made as specific circumstances required.

Toll Collection—The continued large traffic volume, the shortage of competent toll collectors, and the unusual amount of work entailed in connection with the acquisition of the San Mateo-Hayward and Dumbarton Bridges placed heavy demands on the personnel of the toll collection department; however, the situation became somewhat alleviated toward the latter part of the fiscal year when it became possible to enlarge the collection staff by recruitment and as the problems resulting from the acquisition gradually were worked out.

Tabulations—Data on bridge traffic, revenues, finances, and maintenance and operating costs are shown in the accompanying tabulations (Tables I to V, inclusive). For accounting of expenses incurred subsequent to January 31, 1952, a segregation has been made between maintenance and operating costs in accordance with the provisions of the bond resolution adopted by the California Toll Bridge Authority on November 27, 1951.

TABLE I

SAN FRANCISCO-OAKLAND BAY BRIDGE—EXPENSE OF MAINTENANCE AND OPERATION

Maintenance—July 1, 1951, to June 30, 1952

Operation—July 1, 1951, to January 31, 1952

Administration expense.....	\$27,629.41	
Supervising engineer and staff (maintenance).....	27,054.84	
Bridge structure, maintenance and repair.....	16,160.28	
Painting, maintenance and repair.....	366,736.61	
Roadway, fire and tow service.....	147,152.67	
Electrical energy, power and light.....	13,411.13	
Electrical and signal, maintenance and repair.....	70,972.70	
Administration building, maintenance and repair.....	12,090.94	
Roadway, maintenance and repair.....	39,761.02	
Shop and garage.....	21,035.56	
Toll collection to January 31, 1952.....	255,888.02	
Accounting office, staff and supplies.....	65,096.46	
Printing.....	8,782.04	
Traffic engineering.....	6,607.32	
		\$1,078,379.00
Insurance		
All risk.....	\$71,442.29	
Bonding and burglary.....	317.50	
Compensation.....	4,520.51	
Retirement.....	50,042.64	
		126,322.94
Suspense items to be rebilled or transferred.....	\$857.90	
		857.90
Work Order 51-15TC2, scaffold tracks.....	\$20,945.37	
		20,945.37
Total.....		\$1,226,505.21

TABLE II

SAN FRANCISCO-OAKLAND BAY BRIDGE—EXPENSE OF OPERATION

February 1, 1952, to June 30, 1952

Administration expense.....	\$9,951.87	
Supervising engineer and staff (operation).....	656.26	
Administration building.....	9,881.31	
Toll collection.....	205,249.60	
Accounting office, staff and supplies.....	38,327.65	
Lease area maintenance.....	302.07	
		\$264,368.76
Insurance		
All risk.....	\$50,158.05	
Use and occupancy.....	5,987.30	
		56,145.35
Total.....		*\$320,514.11

* Includes write-off of prepaid all risk insurance and fund transfers in transit, totaling \$141,012.51.

TABLE III
SAN FRANCISCO-OAKLAND BAY BRIDGE—FINANCIAL AND REVENUE ACCOUNT
Revenue

	Fiscal Year July 1, 1951 to June 30, 1952	Nov. 12, 1936 to June 30, 1952
Traffic tolls.....	\$9,178,913.86	\$101,268,310.70
Train passenger tolls.....	176,574.39	5,145,420.68
Total toll revenue.....	\$9,355,488.25	\$106,413,731.38
Rents from concessions.....	187,110.68	1,767,349.11
Investment and profit, reserve and maturity fund investments.....	152,363.39	983,638.41
Interest on time deposits.....	.00	37,806.79
Over and short account.....	432.37	5,326.12
	\$9,695,394.69	\$109,207,851.81
Commute suspense.....	3,964.00	12,560.00
Scrip suspense.....	—3,177.30	5,575.50
Damage claim recovery suspense revenue.....	.00	50,000.10
	\$9,696,181.39	\$109,275,987.41
Balance June 30, 1951.....	7,563,482.06	.00
	\$17,259,663.45	\$109,275,987.41

TABLE III—Continued
SAN FRANCISCO-OAKLAND BAY BRIDGE—FINANCIAL AND REVENUE ACCOUNT
Disbursements

	Fiscal Year July 1, 1951 to June 30, 1952	Nov. 12, 1936 to June 30, 1952
Interest paid on outstanding bonds.....	\$182,251.00	\$26,283,612.52
Bonds redeemed.....	4,499,000.00	65,677,000.00
Redemption premium on bonds.....	65,780.00	4,420,135.00
Discount on U. S. Treasury bonds.....	—193,421.87	—193,421.87
C. T. B. A. expense.....	.00	153,478.68
Special legal expense.....	.00	25,000.00
Fiscal agents' expense.....	22,407.90	334,855.53
Transfer from American Trust Company (refinancing).....	.00	—107,643.26
Premium on sale of revenue bonds.....	—1.00	—1.00
Registration, paying and collection agents' expense.....	8,818.55	138,842.40
Use and occupancy insurance.....	43,109.16	268,903.17
Counterfeits, mutilated coins and uncollectibles.....	32.84	1,680.69
From construction fund.....	.00	—429,166.67
Miscellaneous revenue adjustments.....	.00	20,525.25
Damage repair.....	.00	50,500.10
All risk insurance.....	20,875.00	20,875.00
Operating expense.....	179,501.60	179,501.60
	\$4,828,353.18	\$96,844,677.14
Funds on hand June 30, 1952		
Accounts receivable.....	\$155,132.84	\$155,132.84
Cashier's revenue fund.....	83,761.99	83,761.99
Cashier's change fund.....	30,000.00	30,000.00
	\$268,894.83	\$268,894.83
Funds in hands of fiscal agents		
Anglo California National Bank.....	\$1,946,320.88	\$1,946,320.88
Bank of America, N. T. & S. A.....	2,058,471.16	2,058,471.16
	\$4,004,792.04	\$4,004,792.04
Funds in hands of State Treasurer		
Special Deposit Fund—		
San Francisco-Oakland Bay Bridge operating account.....	\$157,623.40	\$157,623.40
Investments		
Treasury bonds.....	\$8,000,000.00	\$8,000,000.00
Total funds on hand June 30, 1952.....	\$12,431,310.27	\$12,431,310.27
	\$17,259,663.45	\$109,275,987.41

TABLE IV
SAN FRANCISCO-OAKLAND BAY BRIDGE—CONSOLIDATED BALANCE
SHEET AS OF JUNE 30, 1952

Assets		
Current assets		
Cash (available).....	\$83,761.99	
Cash (change fund).....	30,000.00	
Construction fund (State Treasury).....	39,506.12	
Bond expense account (State Treasury).....	181,636.06	
Operating account (State Treasury).....	157,623.40	
Construction fund—Series A (State Treasury).....	7,234,253.09	
Toll revenue fund (fiscal and subfiscal agents)		
Anglo California National Bank.....	1,946,320.88	
Bank of America, N. T. & S. A.....	2,058,471.16	
Investments		
U. S. Treasury bonds.....	8,000,000.00	
Discount received.....	—193,421.87	
Accrued interest.....	7,500.00	
Accounts receivable.....	155,132.84	
Credit account and lease deposits.....	55,618.68	
		\$19,756,402.35
Fixed assets		
Investment in bridge (vehicular).....	\$54,768,809.10	
Investment in bridge (interurban).....	18,318,305.81	
Investment in bridge (Port of Oakland overhead).....	443,508.44	
Investment in bridge (approaches).....	6,519,848.91	
Investment in bridge (improvement in facilities).....	435,355.50	
Nonrental equipment inventory.....	879.28	
		\$80,486,707.04
Retirement of fixed assets		
Vehicular.....	\$106,766.06	
Interurban.....	3,399,003.31	—3,505,769.37
		76,980,937.67
Deferred charges		
All risk insurance.....	\$21,325.54	
Use and occupancy insurance.....	31,134.51	52,460.05
Total assets.....		\$96,789,800.07

TABLE IV—Continued
 SAN FRANCISCO-OAKLAND BAY BRIDGE—CONSOLIDATED BALANCE
 SHEET AS OF JUNE 30, 1952

Liabilities and Excess

Fixed liabilities		
Bonds authorized	-----	\$80,000,000.00
Unissued bonds—Series B	----- \$25,000,000.00	
Unissued bonds—Series C	----- 25,000,000.00	
Unissued bonds—Series Undesignated	----- 9,000,000.00	-----59,000,000.00
Outstanding bonds—Series A	-----	\$21,000,000.00
Deferred liabilities		
Scrip suspense	-----	\$5,575.50
Commute suspense	-----	12,560.00
Accrued interest on bonds	-----	168,333.33
		186,468.83
Construction fund	-----	39,506.12
Liability for credit account and lease deposits	-----	55,618.68
State's investment in equipment	-----	879.28
Clearing account and claim schedules filed	-----	135,512.55
		\$21,417,985.46
Excess of assets over liabilities	-----	75,371,814.61
		\$96,789,800.07

1951 REFUNDING ISSUE

Receipts

Bonds authorized	-----	\$80,000,000.00
Unissued bonds—Series B	----- \$25,000,000.00	
Unissued bonds—Series C	----- 25,000,000.00	
Unissued bonds—Series Undesignated	----- 9,000,000.00	-----59,000,000.00
Bonds issued—Series A	-----	\$21,000,000.00
Premium on bonds sold	-----	1.00
Accrued interest	-----	182,361.00
		\$21,182,362.00

Disbursements

Bonds redeemed	-----	\$6,863,000.00
Redemption premium	-----	112,760.00
Interest on bonds	-----	252,500.00
Bond issuance expense	-----	13,738.60
Repayment to State Highway Fund	-----	6,519,848.91
		\$13,761,847.51
Transfer to State Treasury		
Construction fund—Series A bonds	-----	\$7,234,253.09
Bond issuance expense fund	-----	186,261.40
		7,420,514.49
		\$21,182,362.00

TABLE V
SAN FRANCISCO-OAKLAND BAY BRIDGE—CLASSIFICATION OF VEHICLES

Period	Automobiles, automobile trailers, and light commercial vehicles		Busses	Trucks and truck trailers	Motorcycles and triars	Total toll vehicles	Free vehicles	Total vehicles
	Cash toll	Commutes						
November 12, 1936 to June 30, 1950-----	204,540,383	23,475,459	5,649,475	16,606,556	740,421	251,012,294	12,497,937	263,510,231
July 1, 1950 to June 30, 1951-----	23,413,173	2,422,367	432,640	2,403,330	45,137	28,716,647	955,873	29,672,520
July, 1951-----	2,085,697	181,509	38,383	204,192	4,390	2,514,171	93,817	2,607,988
August, 1951-----	2,120,580	191,296	38,698	223,362	4,641	2,578,577	99,601	2,678,178
September, 1951-----	2,049,728	169,889	36,009	199,276	4,655	2,459,557	87,037	2,546,594
October, 1951-----	2,051,662	223,846	38,932	230,536	4,467	2,549,463	101,488	2,650,951
November, 1951-----	2,010,762	216,327	39,355	215,911	3,199	2,485,554	94,008	2,579,562
December, 1951-----	1,982,227	190,750	37,445	198,751	2,420	2,411,593	87,614	2,499,207
January, 1952-----	1,815,508	211,775	35,568	208,634	2,303	2,273,788	96,770	2,370,558
February, 1952-----	1,837,188	193,216	33,605	201,400	2,790	2,268,199	92,130	2,360,319
March, 1952-----	2,024,704	219,066	29,575	212,866	3,337	2,489,548	97,044	2,586,592
April, 1952-----	2,031,387	220,389	31,310	216,537	3,876	2,503,499	98,448	2,601,947
May, 1952-----	2,078,024	212,853	34,266	214,211	4,600	2,543,954	95,349	2,639,303
June, 1952-----	2,046,812	185,541	36,762	217,151	4,133	2,490,389	91,647	2,582,046
Totals—July 1, 1951 to June 30, 1952-----	24,134,279	2,416,457	429,928	2,542,827	44,811	29,568,302	1,134,943	30,703,245
Totals since opening of bridge on November 12, 1936-----	252,087,835	28,314,283	6,512,043	21,552,713	830,369	309,297,243	14,588,753	323,885,996

San Mateo-Hayward and Dumbarton Bridges

Acquisition—As the result of negotiations between the California Toll Bridge Authority and the former private owners of the San Mateo-Hayward and Dumbarton Bridges, culminating in an offer by the authority to purchase the bridges, the State acquired ownership of these two facilities on September 12, 1951. The purchase was financed by the sale of revenue bonds in the total amount of \$8,350,000, authorized by the California Toll Bridge Authority under resolution adopted July 27, 1951. The management of the bridges was placed under the staff of the San Francisco-Oakland Bay Bridge, and the maintenance of the approach roads under District IV of the Division of Highways.

Effective at the time of acquisition, a new toll schedule was adopted. The new basic automobile toll was 35 cents, which was 30 percent below the previous rates. The new truck toll schedule, on a gross weight basis, was a continuation, at reduced rates, of the same general type of schedule previously in effect on the San Mateo-Hayward Bridge, but effected a basic change in the truck toll structure on Dumbarton Bridge. In order to meet fiscal requirements, the toll schedule was designed with the objective of an average toll of 40 cents per vehicle for the combined operation of the two bridges.

The employees of the former owners were given the opportunity, through special examinations in most cases, to qualify for civil service employment by the State and remain on one or the other of the two bridges. A considerable number of these employees took advantage of the opportunity offered, and were in the employ of the State at the end of the fiscal year.

The bond resolution provides for the use of toll revenues for the payment of operating costs (toll collection and lift span operations) and the cost of bridge and approach road rehabilitation. The costs of maintenance of the bridges and of the approach roads are paid from the State Highway Fund.

As the result of an investigation and report by the Bridge Department, followed by a public hearing in San Francisco on September 18, 1951, the following weight limitations were established for traffic on the San Mateo-Hayward Bridge, and appropriate signs erected for the notification of truck operators:

- 18 tons per vehicle
- 27 tons per semi-trailer combination
- 30 tons per truck and full trailer

Traffic and Revenue—The total traffic using the San Mateo-Hayward Bridge from September 12, 1951, to the end of the fiscal year was 1,598,018 vehicles, and the toll revenue derived from this traffic was \$609,062.20. For the same period, the traffic on Dumbarton Bridge was 728,599 vehicles, and the toll revenue was \$359,243.55. On each bridge the traffic showed an increase over previous records.

Operation—The new toll schedule was put into effect without difficulty. The toll collection equipment acquired with the bridges was adapted for the new schedule, and additional equipment as required was obtained

from the Bay Bridge. In general, however, the toll collection equipment at both bridges is old and worn to a degree that will necessitate replacement in the near future.

Lift span operation was continued on both bridges in the manner required by law.

Rehabilitation—The bond resolution provides that a total amount of \$2,000,000 shall be made available from revenues over a period of several years for the purpose of rehabilitation of the bridges and the approach roads. The largest single item, with respect to the bridge structures, is the rehabilitation of the concrete spans of the San Mateo-Hayward Bridge. The approach roads on both bridges will also require extensive repair and rehabilitation. Other items include replacement of the lift span machinery and main cables at San Mateo-Hayward Bridge; structural steel rehabilitation at Dumbarton Bridge; and the construction of a toll plaza on shore at Dumbarton Bridge. The limitations of the rate at which funds may be transferred from revenue for rehabilitation purposes will require that this program be continued over a somewhat extended period.

Under state operation, the principal rehabilitation work to date has been the continuation of repairs to the concrete spans on the San Mateo-Hayward Bridge, which had been under way for some time by the former owner; the replacement of the auxiliary counterweight cables at the same bridge; and, on the Dumbarton Bridge, rust removal, welding to compensate for loosening of rivets, and caulking of the space between steel surfaces which had been forced apart by the rust.

Maintenance—The principal item of maintenance was the painting of the structural steel on the two bridges. This work was done by a crew consisting of one foreman and five painters.

Tabulations—Data on bridge traffic, revenue, finances, and costs of operation, rehabilitation, and maintenance are shown in the accompanying tabulations (Tables VI to XII).

TABLE VI. SAN MATEO-HAYWARD BRIDGE—CLASSIFICATION OF VEHICLES

Period	Automobiles, automobile trailers, and light commercial vehicles		Busses	Trucks and truck trailers	Motorcycles and tricars	Total toll vehicles	Free vehicles	Total vehicles
	Cash toll	Commutes						
September, 1951.....	92,458	7,929	54	10,855	250	111,546	.00	111,546
October, 1951.....	143,222	13,923	162	18,412	345	176,064	2	176,066
November, 1951.....	132,734	12,436	98	14,540	186	159,994	.00	159,994
December, 1951.....	125,742	11,176	153	14,306	107	151,484	.00	151,484
January, 1952.....	114,516	11,862	77	14,704	156	141,315	1	141,316
February, 1952.....	124,187	10,784	126	14,144	153	149,394	.00	149,394
March, 1952.....	133,416	11,603	74	15,504	225	160,822	.00	160,822
April, 1952.....	134,583	10,938	105	16,287	536	162,449	.00	162,449
May, 1952.....	158,575	11,158	195	17,568	781	188,277	.00	188,277
June, 1952.....	168,539	9,247	160	17,858	866	196,670	.00	196,670
Totals—September 12, 1951 to June 30, 1952.....	1,327,972	111,056	1,204	154,178	3,605	1,598,015	3	1,598,018

TABLE VII. DUMBARTON BRIDGE—CLASSIFICATION OF VEHICLES

Period	Automobiles, automobile trailers, and light commercial vehicles		Busses	Trucks and truck trailers	Motorcycles and tricars	Total toll vehicles	Free vehicles	Total vehicles
	Cash toll	Commutes						
September, 1951.....	32,135	3,692	185	13,159	55	49,226	27	49,253
October, 1951.....	51,434	7,437	330	23,613	134	82,948	30	82,978
November, 1951.....	58,873	6,729	361	20,193	89	86,245	14	86,259
December, 1951.....	46,916	5,466	298	14,005	73	66,758	29	66,787
January, 1952.....	40,662	6,238	248	10,648	72	57,868	27	57,895
February, 1952.....	45,904	5,790	238	11,181	49	63,162	23	63,185
March, 1952.....	51,136	6,323	260	12,142	70	68,931	32	69,963
April, 1952.....	50,564	6,112	249	14,722	84	71,731	19	71,750
May, 1952.....	58,122	6,274	198	20,900	151	85,645	.00	85,645
June, 1952.....	64,688	5,857	248	23,921	170	94,884	.00	94,884
Totals—September 12, 1951 to June 30, 1952.....	500,434	59,918	2,615	164,484	947	728,398	201	728,599

TABLE VIII
 SAN MATEO-ALAMEDA BRIDGE ACCOUNT—FINANCIAL AND REVENUE ACCOUNT
 September 12, 1951, to June 30, 1952

	Dumbarton bridge	San Mateo bridge	
Revenue			
Vehicular tolls.....	\$359,243.55	\$609,062.20	\$968,305.75
Nonoperating income.....		1.78	1.78
Proceeds of sales of property.....	1,705.00	6,250.00	7,955.00
			\$976,262.53
Expenses Charged Against Revenue			
*Operating expense.....	\$71,159.07	\$158,151.70	\$229,310.77
Use and occupancy insurance.....	787.55	1,779.64	2,567.19
Rehabilitation cost.....	24,870.10	97,409.43	122,279.53
Over and short.....	—6.03	5.92	—.11
Counterfeit and foreign coins.....		.06	.06
Fiscal agents' expense.....			5,301.56
Interest on outstanding bonds.....			168,212.05
Total expense.....			\$527,671.05
Excess revenue over charges.....			\$448,591.48
Capital Accounts			
Capitalization of State's proprietary interest in bridges for rehabilitation expenditures.....			\$122,279.53
Total credits for State's proprietary interest in bridges.....			\$122,279.53
Less: cost of property sold			
Original bridge retirements.....			7,955.00
Net increase State's proprietary interest.....			\$114,324.53

* Includes all risk insurance—see Table X.

TABLE IX
SAN MATEO-HAYWARD AND DUMBARTON BRIDGES—BALANCE SHEET
(As of June 30, 1952)

Assets		
Current assets		
Cash (available).....	\$8,471.94	
Cash (change fund).....	8,500.00	
American Trust Co. fiscal agent.....	482,126.02	
State Treasurer—operation fund.....	77,617.66	
Total cash.....	\$576,715.62	
Accounts receivable.....	26,270.75	\$602,986.37
Fixed assets		
Investment in San Mateo-Hayward bridge.....	\$6,000,000.00	
Investment in Dumbarton bridge.....	2,250,000.00	
	\$8,250,000.00	
Less: Original bridge retirements		
San Mateo-Hayward bridge.....	\$6,250.00	
Dumbarton bridge.....	1,705.00	—7,955.00
Net investment in bridges.....	\$8,242,045.00	
Capital expenditures—rehabilitation		
San Mateo-Hayward bridge.....	\$97,409.43	
Dumbarton bridge.....	24,870.10	
	\$122,279.53	
Acquisition cost.....	\$41,109.77	
Nonrental equipment.....	9,697.05	8,415,131.35
Deferred charges		
Prepaid all risk insurance.....	\$41,956.10	
Prepaid use and occupancy insurance.....	7,160.91	49,117.01
Total assets.....		\$9,067,234.73
Liabilities, Surplus and Proprietary Interest		
Liabilities		
Current liabilities		
Expenses payable (clearing account).....	\$61,945.89	
Bond coupon liability.....	2,778.75	\$64,724.64
Deferred credits		
Auto scrip suspense.....	\$704.20	
Commute suspense.....	996.00	1,700.20
Accrued liabilities		
Accrued interest.....	\$69,845.83	69,845.83
Fixed liabilities		
Outstanding bonds.....		8,350,000.00
Total liabilities.....		\$8,486,270.67
Surplus and Proprietary Interest		
Revenue Fund surplus		
Balance Sept. 12, 1951.....		
Excess revenues over charges for period (Table VIII).....	\$448,591.48	448,591.48
State's proprietary interest in bridges		
Balance Sept. 12, 1951.....		
Net increase in proprietary interest for period (Table VIII).....	\$114,324.53	114,324.53
Premium on bonds sold.....		8,351.00
State's interest in nonrental equipment.....		9,697.05
		\$9,067,234.73

TABLE X
SAN MATEO-HAYWARD BRIDGE AND DUMBARTON BRIDGE—EXPENSE OF OPERATION

	Dumbarton bridge, Sept. 12, 1951 to June 30, 1952	San Mateo- Hayward bridge, Sept. 12, 1951 to June 30, 1952	Total
Administration expense.....	\$3,541.52	\$7,168.45	\$10,709.97
Supervising engineer and staff.....	973.49	185.98	1,159.47
Administration building.....	203.99	3,528.19	3,732.18
Toll collection.....	33,049.82	87,494.30	120,544.12
Accounting office, staff and supplies.....	6,398.71	10,751.30	17,150.01
Lift span operation.....	16,662.39	18,788.54	35,450.93
Nonrental equipment.....	1,458.35	4,923.20	6,381.55
Printing and supplies.....	1,310.10	5,619.94	6,930.04
	\$63,598.37	\$138,459.90	\$202,058.27
Insurance			
All risk.....	\$7,521.15	\$19,593.75	\$27,114.90
Burglary and bonding.....	39.55	98.05	137.60
	\$7,560.70	\$19,691.80	\$27,252.50
Totals.....	\$71,159.07	\$158,151.70	\$229,310.77

TABLE XI
SAN MATEO-HAYWARD BRIDGE AND DUMBARTON BRIDGE—EXPENSE OF REHABILITATION

	Dumbarton Bridge, Sept. 12, 1951 to June 30, 1952	San Mateo- Hayward Bridge, Sept. 12, 1951 to June 30, 1952	Total
Concrete repairs.....		*\$78,145.56	\$78,145.56
Mechanical and electrical.....	\$575.19	10,301.45	10,876.64
Steel repairs.....	9,143.54		9,143.54
Preliminary engineering—roadway.....	13,507.75	8,962.42	22,470.17
Toll Plaza.....	1,643.62		1,643.62
Total.....	\$24,870.10	\$97,409.43	\$122,279.53

* Includes \$23,910.73 paid to San Francisco Bay Toll Bridge Co.

Carquinez Bridge

Maintenance—In accordance with previous practice, structural maintenance, including the maintenance of marine and aerial navigation signals on Carquinez Bridge, was continued under the jurisdiction of the San Francisco-Oakland Bay Bridge organization. The physical damage insurance premiums on both Carquinez and Antioch Bridges were included under the Carquinez Bridge maintenance work order. Roadway maintenance was handled by District X, Division of Highways.

The principal item of maintenance during the year was the continued painting of the bridge structure. The crew handling this work consisted of one foreman, one leadman, and six painters.

Because of the requirements of navigation, it is necessary to maintain a 24-hour watchman service at this bridge in order to keep navigation lights on at all necessary times and to operate fog signals whenever required.

The total maintenance cost during the year, including physical damage insurance premiums on Carquinez Bridge and on Antioch Bridge, was \$96,000.82, paid from the State Highway Fund.

The balance remaining in the Carquinez Bridge revenue account at the end of the fiscal year was \$14,913.89.

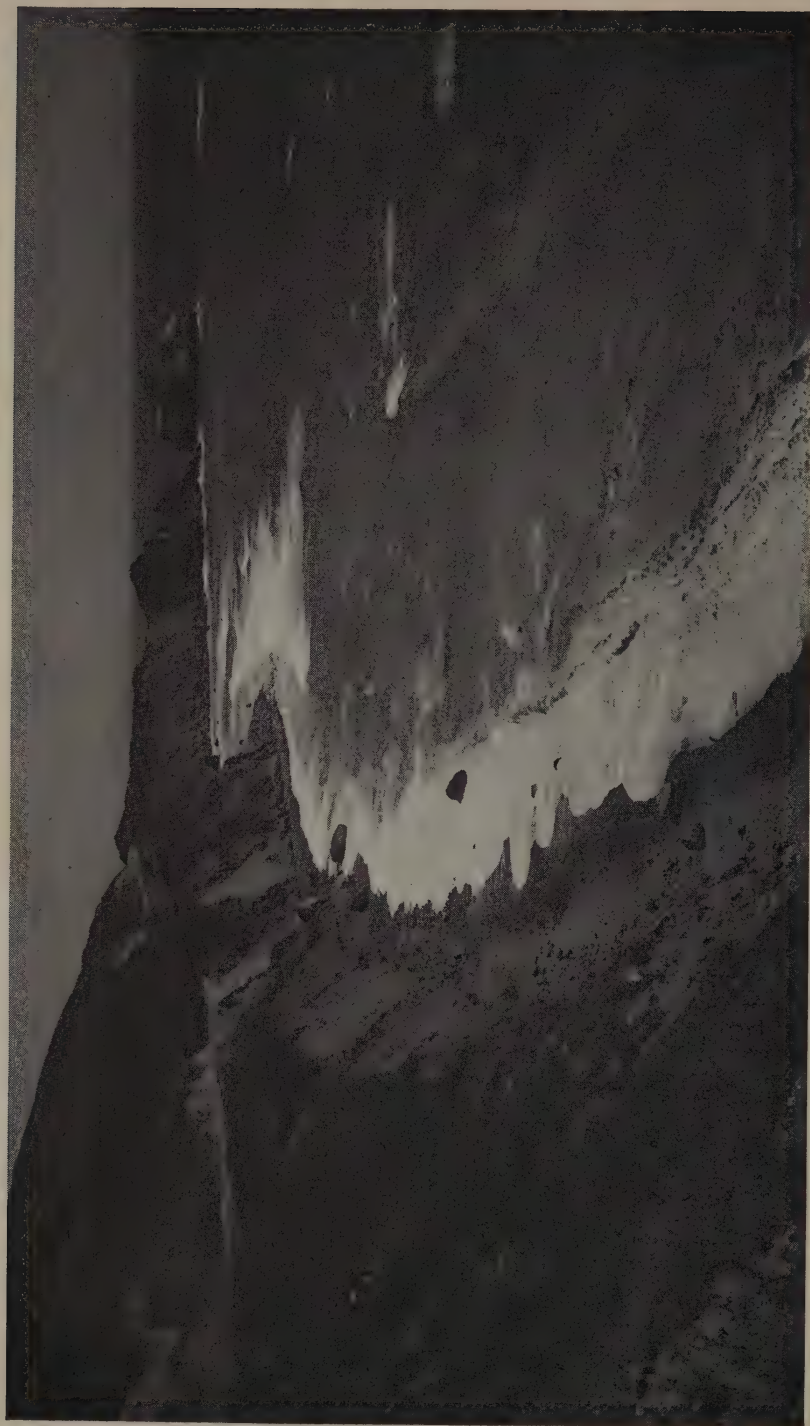
Tabulations—Data on the maintenance expenses at Carquinez Bridge are furnished in the appended tabulation (Table XII).

TABLE XII

CARQUINEZ, SAN MATEO-HAYWARD, AND DUMBARTON BRIDGES—MAINTENANCE EXPENDITURES, STATE HIGHWAY FUND

	Carquinez Bridge, July 1, 1951 to June 30, 1952	Dumbarton Bridge, Sept. 12, 1951 to June 30, 1952	San Mateo- Hayward Bridge, Sept. 12, 1951 to June 30, 1952	Total
Administration, engineering and accounting.....	\$2,767.50	\$1,750.92	\$3,223.76	\$7,742.18
Marine and aerial signals.....	11,775.82	597.72	199.13	12,572.67
Bridge structure.....	198.93	688.90	2,074.37	2,962.20
Roadway maintenance.....		3,025.34	2,339.81	5,365.15
Painting.....	53,530.18	24,892.85	1,739.34	80,162.37
Building maintenance.....	6,088.55	1,867.47	1,320.67	9,276.69
All risk insurance.....	*21,639.84			21,639.84
Totals.....	\$96,000.82	\$32,823.20	\$10,897.08	\$139,721.10

* Includes \$5,799.84 all risk insurance, Antioch Bridge.



TYPICAL COASTAL SCENE along State Sign Route 1 in Monterey County south of Carmel

PUBLIC RELATIONS AND PERSONNEL

The Public Relations and Personnel Department is under the supervision of an Assistant State Highway Engineer. In addition to the functions of public relations and personnel management and training, this department has responsibility for the safety education activities of the Division of Highways.

PUBLIC RELATIONS

The principal effort of the Public Relations Section during the past year has been aimed at increasing public knowledge and understanding of the facts and problems of California highway development, with emphasis on applying a state-wide perspective to local situations. This effort has been carried on by means of news releases of several types, both state-wide and regional; magazine articles; talks and speech material, including colored slides; illustrated leaflets; radio; television; a wide range of correspondence; and pictorial displays.

Actually, the tremendous demand for information about highways cannot be met effectively by a single staff or unit. Knowledge about the State Highway System has always been and will always be conveyed to the public in many different ways by division employees throughout the State and by other official and civic groups and individuals. The Public Relations Section, therefore, not only collects and prepares highway news for dissemination through the usual mass communication media; it supplies illustrative data and pictorial and other material designed to assist division representatives and others in highway discussions.

During the past year the Division of Highways has expanded its reporting of California Highway Commission actions covering route adoptions and freeway declarations, illustrated by maps made available to the regional press in mat form. Similar illustrated articles have been provided on construction projects of special interest and on various activities of the division in such fields as road condition reporting and snow area traffic safety. Numerous articles have been written, accompanied by photographs, for semitechnical and popular magazines.

Charts, colored slides, and other visual aids have been increasingly used to illustrate talks by division representatives and others during the past year. The popular series of slides on California highway financing was revised and brought up-to-date. A special slide-illustrated talk was prepared on the subject of snow removal problems. The Public Relations Section's slide library now contains approximately 5,000 colored slides and is being expanded. Research is continuing into improved methods of presenting highway data in graphic form.

Informational charts and leaflets, usually based on the same illustrations found to be effective in the colored slides, have been printed and made available for use in supplementing the remarks of speakers and in answering inquiries on the complicated subject of highway financing.

Assistance in the form of script and graphic material was provided by the Public Relations Section in connection with radio and television programs in which personnel of various district offices took part.

In all of the activities outlined in the foregoing paragraphs, an attempt has been made to correlate local traffic problems with the state-wide list of critical highway deficiencies awaiting solution. Explanation of why all needed highway improvements cannot be accomplished speedily under present financing poses a continuous and urgent challenge to division personnel. The same problems confront all those called on to answer the logical demands of individuals and communities for immediate action to remedy specific deficiencies. In recent months, newspaper editorials and other mirrors of public opinion have reflected an increasing understanding of the state-wide nature of what formerly had been treated as local needs.

The Public Relations Section has been assigned the duty of assembling informational material requested of the division by many groups and individuals in other states and foreign countries as well as in California. This task was formerly performed in large measure by engineering personnel of various headquarters departments.

Public relations is not a separate or distinct program. It is recognized as a necessary part of all operations of the division and its personnel in the carrying out of both routine and special assignments. Each department and district office performs its share of public relations work, adapted to the nature of its functions or the conditions and problems in its territory. In this respect, the role of the Public Relations Section has been to provide assistance and coordination as needed.

PERSONNEL MANAGEMENT AND TRAINING

Recruiting

The nation-wide engineering personnel shortage continued to become more critical during the past year, necessitating the extended use of intensive recruitment methods. Contacts with high schools and colleges were made by headquarters and district representatives in order to interest as many prospects as possible in the examinations for the various engineering classes. Two examinations for junior civil engineer were given on a nation-wide basis, and one additional examination was given in California only.

Although these recruiting efforts resulted in a net increase in the engineering staff of over 350 during the year, a considerable shortage still exists. In order to alleviate the effects of this condition, every effort is being made to use nonengineering personnel wherever possible and to encourage the increased use of women in positions such as drafting aid and delineator.

Recruiting for nonengineering classes has been largely on a routine basis, although some special efforts have had to be devoted to securing qualified stenographic help in some localities.

Employment Statistics

The total number of employees in the division was 7,482 on July 1, 1950; 8,279 on July 1, 1951; and 9,098 on July 1, 1952. The distribution on the latter date was as follows:

Engineering employees.....	3,794
Maintenance employees.....	3,155
Right of way employees.....	220
Equipment employees.....	420
Accounting, clerical, etc.....	1,509
Total	9,098

Disciplinary Actions

During the 1951-52 Fiscal Year a total of 49 employees were dismissed, of whom seven were permanent, 41 under temporary authorization, and one limited term. Twenty-two probationers were rejected. No disciplinary demotions were given, but 35 employees received disciplinary suspension for periods of under 30 days.

Service Awards

In accordance with the provisions of recent legislation, arrangements are being made to present certificates and pins to all employees who have had 25 years or more of service with the State of California. Similar awards also are to be made to all retired employees who had at least 25 years of state service prior to their retirement.

Retirement

During the 1951-52 Fiscal Year, the number of employees retiring from the Division of Highways was 66.

Training

In cooperation with the Institute of Transportation and Traffic Engineering of the University of California, conferences and short courses on various subjects have been held at key locations throughout the state. The most comprehensive course held during the past year covered information on drainage and drainage structures.

Presentation of special courses designed to meet specific needs has been continued wherever necessary. One such course, on the Lambert Coordinate System, was given in San Francisco and in Los Angeles. Representatives from the various highway districts were brought in to the location closest to them. This course also was given in cooperation with the Institute of Transportation and Traffic Engineering, with the instructor being furnished by the University of California. In addition to the assigned highway employees, a large number of representatives from private and governmental engineering organizations attended the course. Another course of this type, on the care and use of surveying instruments, is being presented in cooperation with one of the instrument makers. One pilot presentation has been given in the San Francisco district, and it is intended to present it to personnel in the other districts as soon as possible.

Surveys have been made among the various districts of the division to determine what help is needed in connection with their employees' preparation for the registration examinations given by the State Board of Registration for Civil and Professional Engineers. Courses have been arranged in various localities in cooperation with local educational institutions, and it is planned to extend and supplement such courses as needed.

Cooperation has been extended to the California State Employees Association Institutes of Government which have been held in several locations and to the School of Government sponsored by the same organization in the Sacramento area.

Special courses covering particular needs have been developed by several units, such as the Bridge Department and the Right of Way Department, with help and cooperation from this department wherever required.

Use of courses presented by the State Personnel Board and by outside educational institutions has continued, and some study groups have been arranged by employees themselves. Wherever possible, information developed in such groups has been reproduced and distributed to employees in other locations who might be interested.

The on-the-job training program for veterans was continued during the year, the total number enrolled decreasing during the period from 35 to 8.

SAFETY EDUCATION

Cooperative Activities

Education of the public motorist in an understanding and appreciation of the engineering features of traffic safety continued during the fiscal year as an activity of the Safety Section. Speakers and conference leaders were provided for organized public groups, to state college driver-teacher instruction classes, to university extension classes, and to other group meetings.

Active support and participation was given to the Governor's Traffic Safety Conference and to the Governor's Industrial Safety Conference.

In other group efforts the Coordinator of Traffic Safety Education, who administers the Safety Section, serves as Secretary of the State Employees Accident Prevention Committee; he is also a member of the National Highway Research Board, on the Committee on Safety of Maintenance Personnel, and is a member of the Streets and Highway Committee, Public Employee Section, National Safety Council. District safety supervisors frequently were called upon for assistance by local safety councils and assisted whenever called upon in community safety efforts.

Employee Safety Program

The Safety Section is concentrating more and more on employee safety. With over 9,000 employees, the Division of Highways within itself presents a wide field for extensive accident prevention endeavors.

Early in 1950, the Director of Public Works instructed his division heads to activate an all-inclusive employee safety program. The Division of Highways put such a program into effect and named a full-time safety

supervisor to each of its 11 districts. A part-time supervisor was named to each of the five major Headquarters Departments.

By the same directive, safety committees were named in each of the districts and Headquarters Departments to review all accidents, determine responsibility, and take or recommend necessary action.

The Coordinator of Traffic Safety Education serves as Secretary of the Division Safety Committee. The divisional committee is appointed by, and is directly responsible to, the State Highway Engineer. The Deputy State Highway Engineer is the chairman of the committee. Also on the committee are one of the principal attorneys of the Department of Public Works, the Assistant State Highway Engineer—Public Relations and Personnel, the Maintenance Engineer, and the Equipment Engineer.

During the fiscal year the district committees met monthly. Later in each month the Division Committee met and reviewed district committee activities and the effectiveness of the divisional program, taking administrative action where necessary.

Industrial Accidents

National safety records, industry-wide and in other state highway departments, are maintained on the calendar year basis. California safety records are kept in like manner.

In the first 10 years of this State's organized accident prevention program, accident frequency, or the number of lost-time injury accidents per million man-hours of work, was reduced 48 percent.

Nationwide, the trend of occupational accidents during 1951 was slightly upward. The Division of Highways recorded a frequency of 25.59 for the calendar year 1950. For the year of 1951 the frequency was 25.33, a very slight drop, but nevertheless an improvement.

In the first six months of 1952, California had the heaviest snowfall and some of the most difficult maintenance problems in the history of the Division of Highways. Because of this added exposure hazards increased. The frequency for this six months rose to 25.85, a small increase but one which is cause for an increased effort in accident prevention during the remaining months of the year.

Motor Vehicle Accidents

The Safety Section continued its emphasis on motor vehicle problems of Division of Highways employees. Nearly 2,000 vehicle drivers from every district and department have been tested for vision and driving ability. Although it is too early to observe any improvement statistically, there is evidence that an improved safety consciousness in driving is developing. This testing program is continuing.

To establish the effectiveness of the program and for record purposes, recordable, or chargeable, motor vehicle accident frequency is defined as the number of accidents charged to employee drivers per 100,000 miles of driving. The frequency for the calendar year 1950 was 1.29, for the year 1951 it was 1.26, and for the first six months of 1952 an improved frequency of 1.07 was recorded.

Employee Suggestion Program

The employee suggestion system became active in December of 1950. By June 30, 1952, the State Merit Award Board had received 628 suggestions from employees of the Division of Highways. This is 26 percent of the suggestions received from all state departments, and more than three times the number submitted by any other department.

In the Division of Highways, the details of the suggestion system are handled by the Safety Section. It has taken a great amount of time by both departmental supervisors and this section to forward this program.

RIGHT OF WAY

Under the supervision of the Chief Right of Way Agent the Right of Way Department concluded 4,104 real estate transactions for right of way purposes during the fiscal year ending June 30, 1952. This involved a total expenditure of \$32,981,161.06. In addition to this activity was the related property management and utility relocation activities reported on separately herein, and the acquisition, as negotiating agency, for the Public Works Board of 57 parcels of land required for institutional and other uses throughout the State, at a total cost of \$1,358,457.15.

RIGHT OF WAY TRANSACTIONS

Of the 4,104 separate transactions concluded, 3,921 were completed by negotiation and 183 through eminent domain proceedings. Of the 183 parcels acquired by condemnation, 88 were handled through court procedure by mutual consent with the owners as the most practical way of clearing the title. The fact that the remaining 95 parcels represents only 2.3 percent of the total number of transactions is a commendation for the effectiveness of the prenegotiation-appraisal procedure which has been effectively used in the past few years. To complete this number of transactions it was necessary to secure the execution of 8,228 documents.

UTILITY RELOCATION

Under the terms and provisions of the Collier-Burns Highway Act utility relocation called for the preparation and execution of 375 utility agreements. Direct payment for this relocation work was made to the affected utility companies during the year in the amount of \$2,612,981.61. In addition to this sum, obligations were incurred for utility removals to be completed and paid for after June 30, 1952, in the amount of \$2,874,355.65. This sum is not included in the above statement of right of way expenditures. The administration of the utility relocation activities required an overhead expenditure of \$147,472.59.

PROPERTY MANAGEMENT

Operating under the prescribed procedure whereby all possible income is derived from properties during the interim period between the time of purchase and the time it is necessary to clear the land for highway construction, the Right of Way Department was called upon to administer 2,356 rental and lease units. At the beginning of the fiscal year it was necessary to dispose of and clear from the right of way 1,036 units. During the year 1,268 new rental and lease units were added to the rental and lease accounts, and on June 30, 1952, the division was operating 1,320 units. These rental units accounted for a gross rental and lease return to the division of \$712,194.27. This return was administered with

overhead charges for utilities, maintenance, emergency repairs and replacements, etc., of \$108,409.98, with a net return to the division of \$603,784.29. In addition to this, 1,089 sales of improvements to clear the right of way accounted for a net return of \$1,303,076.79, or a total net credit from rents, leases and sales of \$1,906,861.08.

PERSONNEL

All right of way activities were carried on with a staff of 212 right of way agents plus necessary right of way engineering, stenographic and clerical help. The problem of maintaining the right of way agent staff numerically and attempting to increase it to meet anticipated increased right of way activity is one of the major problems of the Right of Way Department. The difficulty of recruitment of personnel for governmental employment in all of the various classifications is well known. However, in the field of land acquisition for right of way it is impossible to obtain any personnel from private enterprise. This condition makes it mandatory that all right of way activities must be carried on with personnel taken into the organization upon graduation from college and without any previous training in the right of way profession.

All new employees are given intensive training for the first two years in the organization. No effort has been spared in making this in-training as comprehensive and as thorough as possible in view of the fact that each operating right of way agent after his training period is responsible for either the appraisal or the negotiation of an average of \$300,000 worth of property each year.

During the past year, the department has lost to private enterprise 14 of its trained right of way agent personnel. This represents 7 percent of the operating staff, and in view of the period of intensive training, the time loss of the operative staff in preparing these training courses and the salaries of the trainees during the training period, the constant syphoning off of trained personnel by private enterprise represents a loss much greater than the 7 percent indicates.

PROTECTION PROBLEM

During the year the problem of protecting future right of way requirements continued to grow and it became increasingly apparent that unless some solution to this problem were devised in the immediate future, the foreseeable right of way funds would only buy a fractional portion of the right of way for which the funds are intended.

In the solution of the right of way protection problem, it is recognized that major highways, and particularly the new freeways, must be constructed from the center of the metropolitan area out through the urban to the rural area in order to alleviate the present unbearable traffic congestion conditions at points of greatest need, and that with the limited funds that are available, the Division of Highways is forced to purchase right of way immediately ahead of the planned construction program.

It is unfortunate that under this program of procedure, real estate values and subdivision activity continue to pyramid ahead of planned right of way acquisition, with the result that the State is constantly facing heavy increases in right of way costs created by the very highway

or freeway improvement being constructed. This continual pyramiding of land values is constantly reducing the purchasing power of the right of way dollar.

This financial feature is clearly pictured through an analysis of the completed right of way acquisition program for the 1951-52 Fiscal Year. The following figures are a very accurate comparison of this 1951-52 program with the statistics of the right of way acquisition program for the 1947-48 Fiscal Year.

A recheck discloses that on the basis of required *land only* the 5,091.64 acres acquired in the 1951-52 Fiscal Year represented an average over-all cost of \$3,064.02 per acre, whereas in the 1947-48 Fiscal Year right of way acquisition costs were \$2,064.80 per acre. This indicates a net increase in the over-all cost per acre during the five-year period of 48 percent.

A similar study indicates that the current average cost per acre of *land plus improvements* during the 1951-52 Fiscal Year was \$6,477.51 per acre, as compared to an acquisition cost per acre of comparable lands and improvements in the 1947-48 Fiscal Year of \$4,477.95, or an increase during the five-year period of 45 percent.

It will be obvious that during the five-year period there was an increased cost per acre of \$1,999.56 and this figure applied to the 5,091.64 acres acquired in the 1951-52 Fiscal Year, represents an increased cost of \$10,181,039.68. Included in this figure, of course, are a large number of building improvements, particularly residential in new subdivisions, the construction of which was impossible to forestall because an accelerated right of way acquisition program would have represented a critical curtailment of construction operations, which would have represented even a greater dollars and cents loss to the traveling public.

To further analyze these comparative figures, the rate of increase of building costs as determined by reliable economic reports of competent authorities specializing in land and building economic data indicated 25 percent average over-all increase for the like period. Using this 25 percent figure for the normal increase for all improvements, the analysis is as follows:

The total right of way expenditures during the 1951-52 Fiscal Year were \$32,981,161.06. Of this total \$15,600,895.79 represents expenditures for land only.

Expenditures for improvements only were \$17,380,265.27. Based on the 25 percent increase in building improvements values the same improvements would have represented a cost of \$13,904,212.22 if purchased during the 1947-48 Fiscal Year, or an indicated increased net cost as of the 1951-52 Fiscal Year of \$3,476,053.05.

From the above figures it will be noted that had it been possible to acquire the \$32,981,161.06 worth of right of way five years previous to the 1951-52 Fiscal Year, it would have represented a saving of \$6,704,986.63 on land only, and a saving of \$3,476,053.05 on building improvements, or a gross accrued saving of \$10,181,039.68.

These figures in no way attempt to take into account the very important factor of the percentage of improvements which it would have been unnecessary to purchase if the acquisition for these requirements had been made 5 or even 10 years in advance, and prior to the encroachment of building improvements.

A typical example of the problem with which the Division of Highways is confronted is presented in the following hypothetical example. This hypothetical example unfortunately has actually happened over and over again along the proposed alignment of freeways planned for future construction, particularly in the metropolitan areas of Los Angeles, San Francisco, Oakland, San Diego and Sacramento.

EXAMPLE

Assume 40 acres of unimproved land which becomes ripe for subdivision :

Proposed freeway alignment would cross the 40-acre parcel taking 160-foot width of right of way. Because of interchange structures planned at intervals of one mile, one-quarter of the area necessary for an interchange would be needed. (Balance of interchange area would be taken from adjoining parcels.)

Right of way requirements from the 40-acre parcel prior to subdivision:

1,320 linear feet \times 160 feet wide equals 211,200 square feet	equals 4.85 acres
One-quarter of total area required for interchange structure taken from 40-acre parcel	equals 4 acres
Total requirements from 40-acre parcel	8.85 acres
Normal anticipated cost	
8.85 acres at \$2,000 per acre *	\$17,700.00
Possible severance damage of 30 percent	5,900.00
Total cost	\$23,600.00

* Average value of this type of potential subdivision acreage.

Right of way requirements if same 40 acres is subdivided prior to right of way acquisition:

Assuming twelve 50 \times 100 foot lots to a block or 81,600 square feet (gross average area of lots includes street area totaling 6,800 square feet).

8.85 acres (385,506 square feet \div 6,800 square feet would total 57 lots).

57 lots at \$2,000 per lot would represent a \$114,000 cost to the Division of Highways for the necessary right of way.

Cost of land only after development as a subdivision	\$114,000.00
Cost of land as part of the original 40-acre tract undeveloped including possible severance damage	23,600.00
Net increase in cost due to land development	\$90,400.00

Economic studies disclose that under present residential subdivision development procedure it is customary to construct residential improvements of an approximate value of \$8,000 on \$2,000 lots containing 5,000 square feet net.

If 57 \$8,000 residential building improvements were placed on the lots there would be an additional increase cost for right of way acquisitions of \$456,000.

This increased cost added to the increased land cost would represent a total increased cost of \$546,400 for a parcel of freeway right of way that could have been purchased for a total of \$23,600 if right of way protection funds could have been made available prior to this hypothetical land development program.

It is, of course, unfortunate that this increase in right of way cost occurs in spite of constant effort on the part of the Division of Highways to discourage the subdivision and building of improvements on any lands required for right of way within the foreseeable future. In this endeavor the Division of Highways has received excellent cooperation from the majority of the cities and counties (within their legal limitations) in an attempt to carry on this means of right of way protection. It, of course, must be recognized that when the Division of Highways attempts to forestall an owner in the construction of a building improvement on land which will be required for state highway right of way, the property owner takes the stand, and properly so, that if he is going to cancel his planned building improvement he is entitled to have the subject land purchased by the State.

It clearly appears from the comparative studies that the only feasible procedure to alleviate this right of way problem is the possibility of having sufficient funds available to proceed with the acquisition of all undeveloped land from the outer termini of proposed metropolitan freeway developments through the urban area toward the heart of the metropolitan district at the same time that current right of way acquisition and construction is being carried on from the heart of the metropolitan area toward the outlying section of the city.

As previously stated, however, this program of right of way acquisition procedure cannot be carried on without a critical curtailment of construction operations to alleviate the existing unbearable traffic congestion.

LEGAL

As noted in previous reports, the amount of legal work arising out of the activities of the Department of Public Works is directly proportional to the size of right of way and construction programs. These programs have continued on a much expanding basis, and hence the legal work handled shows a corresponding increase.

The following tables indicate the volume of work performed involving litigation or appearances before administrative bodies. All tables relate to the Fiscal Year July 1, 1951, to June 30, 1952.

Some idea of the volume of condemnation case work is given by the following tabulation:

CONDEMNATION PROCEEDINGS

Suits filed -----	177	Trials -----	69
Parcels involved -----	1,108	Uncontested judgments -----	66
Defendants involved -----	3,294	Suits pending June 30, 1952 -----	345
Suits closed -----	148	Parcels pending June 30, 1952 -----	2,479

As will be seen by the number of parcels and number of defendants involved in the condemnation proceedings filed, each proceeding covers a considerable number of parcels. Likewise, trials usually cover several parcels with different owners, making the average trial one of some magnitude, often with several opposing counsel representing various parties.

The volume of work involved in the above legal proceedings becomes even more impressive when it is realized that condemnation proceedings are not filed by the Department of Public Works until negotiations have been attempted with every property owner involved and an attempt made to reach settlement before filing the condemnation proceedings.

Two significant decisions of first instance involving access rights were handed down by the appellate courts of this State, both of which were handled by the department's attorneys. Both of these decisions affirmed the department's long-standing position that where a property owner has no right of direct access to a highway before it is constructed as a freeway abutting his property, nothing is taken from him by the failure to give him a right of access when the conversion takes place, an allowance of compensation in such a case amounting to a gift rather than a payment for the destruction of a right. In the case of *Schnider v. State of California*, 38 Cal. (2d) 439, this principle was applied to the widening of an existing street declared a freeway, to which the claimant property owner had no right of direct access prior to the widening. In the case of *People v. Thomas*, 108 Cal. App. (2d) 832, the same principle was applied to a highway on an entirely new alignment.

The case of *United States of America v. 4,783 acres of land more or less in the County of Orange, State of California*, was a proceeding brought by the Federal Government in the Federal District Court to determine the damages to be awarded for the closing of Bolsa Avenue,

a state highway in Orange County. After considerable negotiation and pretrial preparation, a favorable stipulated judgment was entered in this case awarding the State of California \$130,000 for the closing of Bolsa Avenue.

In addition to condemnation proceedings, the department's attorneys have handled an increasing number of miscellaneous actions. The following table, designated as "Other Litigation," gives some idea of the number of cases involved:

OTHER LITIGATION

Cases pending July 1, 1951	127
Cases filed	109
Total	236
Cases closed	87
Cases pending June 30, 1952	149

This designation covers a wide variety of cases. In some of these cases, for example, claims for damage to state highway facilities such as bridges, signals and guard rails, or for damage to state vehicles, or unlawful detainer actions, the State has been represented as a plaintiff. On the other hand, this table also includes many actions where the department is represented as a defendant, such as inverse condemnation proceedings where damage to property by reason of state highway operations is alleged, suits by contractors for additional compensation on construction projects, and suits because of alleged dangerous or defective condition of state highways. In still other types of cases, such as stop notice cases, the department has filed interpleader actions in which it assumes a neutral position between the contractor and the claimant. In addition to the actions in which the department's attorneys represent the Department of Public Works, the above table also includes various types of actions in which the department's attorneys actively represented the California Toll Bridge Authority.

Typical of the above actions at the trial court level was a case entitled *Town of Emeryville v. Frank B. Durkee, et al.*, Alameda County Superior Court No. 242243. This case involved a freeway agreement with the city and was an attempt on the part of the city and certain owners of property along the freeway to restrain the award of a contract for the construction of an intersection structure, upon the theory that the proposed construction would breach the freeway agreement. The court sustained the position of the department's attorneys that the suit was, in effect, against the State of California and that the State had not consented to be sued in such a case. The court further held that the complaint did not state a cause of action since the proposed intersection was in accord with the freeway agreement and the claimed deviation affected an intersection which was not within the city limits of Emeryville.

The above tabulation also includes several cases in which the department appeared in the Appellate Courts of this State. For example, the department appeared as an intervener in the case of *Perez v. City of San Jose*, 107 Cal. App. (2d) 562. In this case the court affirmed the department's position that the City of San Jose could properly use its tax funds for the improvement jointly with the State of that portion of the state highway within its boundaries known as The Alameda.

Proceedings before the Public Utilities Commission continued at approximately the same rate as during the prior fiscal year and are illustrated by the following tabulation:

PROCEEDINGS BEFORE THE PUBLIC UTILITIES COMMISSION

Applications pending July 1, 1951	48
Applications filed	20
Orders secured	26
Applications completed	19
Applications pending June 30, 1952	49

In addition to formal applications, numerous formal notices under General Order 88 were filed with the Public Utilities Commission.

The table with reference to the Public Utilities Commission covers matters having to do both with crossings at grade of highways and railroads, and the construction of grade separations. In all instances the approval of the Public Utilities Commission must be obtained as to the engineering details, and in the event of a failure to reach an agreement with the railroad involved as to the apportionment of costs, the applications seek such a determination by the Utilities Commission.

An increasing number of claims against the State by reason of the activities of the department were filed before the State Board of Control. The following tabulation illustrates the volume of work handled by the department's attorneys before the Board of Control:

DEPARTMENTAL CLAIMS BEFORE THE STATE BOARD OF CONTROL

	<i>Number of claims</i>	<i>Amount of claims</i>
Pending July 1, 1951	137	\$511,809.55
Filed	112	2,049,806.63
Totals	249	\$2,561,616.18
Disposition made	190	2,002,376.97
Pending June 30, 1952	59	\$559,239.21

In addition to the work represented by litigation and the other matters shown in the tables above, what might be called the office work of the Legal Department has shown a decided increase. After much time-consuming work and numerous conferences with the utility companies concerned, master agreements covering the cost of relocation of utility facilities within public ways were negotiated by the department's attorneys with the Pacific Gas and Electric Company, the Pacific Telephone and Telegraph Company, and the Associated Telephone Company, Ltd., and continued conferences were held leading toward the execution of such agreements with other utility companies. The regulations imposed by the Federal Government on the use of certain materials vital to highway construction have furnished additional problems. One of the most significant increases in requests for opinions from the Legal Department during this period has been with reference to drainage problems. This is undoubtedly due to the large increase in urbanization and to the development of numerous new subdivisions in California, as well as to the unusually heavy rains in California during the winter of 1951-1952.

ACCOUNTING

Administration of all accounting and internal audit of the Division of Highways is under the direction of the Comptroller and his supervisory staff.

Form of Financial Statements

The Statement of Financial Condition, Statement of Budgetary Resources and Allocations, and the Statements of Revenues and Expenditures included herein differ somewhat as to form from similar statements which have appeared in previous annual reports. The changes which have been made do not reflect changes in accounting procedures or classification but merely a rearrangement of information contained in the statements to conform with statements which are being prepared by the Division of Audits of the Department of Finance from the books of the Division of Highways as of June 30, 1952.

Cash Resources and Obligations

On June 30, 1952, current resources consisting of cash \$22,948,723, Revolving Fund \$4,026,000, and investment in U. S. Government obligations \$49,913,600 totaled \$76,888,323. On the same date the obligations represented by going contracts and day labor projects amounted to \$79,707,606.

Revenue and Expenditures

Total revenue for the 1951-52 Fiscal Year amounted to \$192,254,373, of which \$32,911,588 remained uncollected on June 30, 1952. The uncollected balance consisted of \$30,791,921 in federal aid and \$2,119,667 in contributions, collection of both items being deferred pending completion of the work on which they apply.

Total expenditures and obligations for the 1951-52 Fiscal Year amounted to \$194,017,226, and obligations in the form of outstanding contracts and day labor projects on June 30, 1952, amounted to \$79,707,606 as compared with \$65,791,596 on June 30, 1951.

Investment of Surplus Cash

By resolution adopted on November 15, 1951, the California Highway Commission authorized the investment of surplus cash in the State Highway Fund in U. S. Government obligations pursuant to Section 207 of the Streets and Highways Code. An initial investment was made of \$10,000,000 in U. S. Treasury 2 percent bonds due December 15, 1954/52 and \$10,000,000 of U. S. Treasury 90-day bills. Subsequently as cash became available an additional total of \$10,000,000 was invested in U. S. Treasury

90-day bills, and on May 22, 1952, \$20,000,000 was invested in U. S. Treasury Savings Notes dated May 15, 1952, and maturing May 15, 1955. The yield on this issue if held to maturity is 1.88 percent. The yield on the 90-day Treasury bills has varied from 1.56 percent to 1.94 percent. The annual revenue from investments is estimated at \$875,000.

Accounting and Financial Statements

Included as Appendix A of this report are statements reflecting the financial condition of the Division of Highways as of June 30, 1952, and tables classifying revenues and expenditures to date and for the year ending June 30, 1952.

APPENDIX A

ACCOUNTING AND FINANCIAL STATEMENTS

1. Statement of Financial Condition as of June 30, 1952.
 2. Statement of Budgetary Resources and Allocations for Fiscal Year Ending June 30, 1952.
 3. Statement of Receipts and Estimated Revenues for Fiscal Year Ending June 30, 1952.
 4. Statement of Budgetary Expenditures and Encumbrances for Fiscal Year Ended June 30, 1952.
 5. Analysis of Income Received by Division of Highways by Fiscal Years to June 30, 1952.
 6. Analysis of Federal Government Funds Received by Division of Highways by Fiscal Years to June 30, 1952.
 7. Expenditures by Division of Highways to June 30, 1952, Classified as to Function.
 8. Expenditures by Division of Highways by Fiscal Years to June 30, 1952, Classified as to Location and Purpose.
 9. Statement of Expenditures in Counties for Construction, Reconstruction, Improvements, and Maintenance and Contributions Received in Connection therewith, January 1, 1912, to June 30, 1952.
 10. Statement of Service and Supply Department Financial Transactions, July 1, 1951, to June 30, 1952, and Summary July 1, 1947, to June 30, 1952.
 11. Statements of Budgetary Transactions as of June 30, 1952.
 - (a) State Highway Operating Budget—1952-53 Fiscal Year.
 - (b) State Highway Operating Budget—1951-52 Fiscal Year.
 - (c) State Highway Operating Budget—1950-51 Fiscal Year.
 - (d) State Highway Operating Budget—1949-50 Fiscal Year.
 - (e) State Highway Operating Budget—1948-49 Fiscal Year.
 - (f) County Highway Budget—Continuous.
 - (g) County Highway Budget—Prior.
 - (h) Access Highways Budget.
 - (i) Grade Separations Operating Budget.
-
-

DEPARTMENT OF PUBLIC WORKS, DIVISION OF HIGHWAYS
STATE HIGHWAY FUND
STATEMENT OF FINANCIAL CONDITION AS OF JUNE 30, 1952
Assets and Budgetary Resources

Cash:			
In treasury.....	\$21,665,113.04		
In transit to treasury.....	6,065.00		
In agency accounts.....	1,277,545.22		
			\$22,948,723.26
Revolving Fund.....			4,026,000.00
Investments U. S. Government Securities.....			49,913,600.00
Loans to California Toll Bridge Authority:			
For surveys made by Division of San Francisco Bay			
Toll Crossings.....	\$971,596.73		
For permanent revolving fund.....	50,000.00		
			1,021,596.73
Receivables:			
Court deposits in condemnation proceedings.....	\$5,136,758.06		
Accounts receivable.....	645,892.92		
			5,782,650.98
Inventories—stores.....			3,489,843.33
Suspense and deferred items.....			734,170.97
Advance Expenditures 1952-53 Fiscal Year Contracts.....			2,333,975.06
Estimated Revenue:			
Federal aid apportionments.....	\$28,018,160.66		
Contributions.....	4,320,063.93		
Work for other agencies.....	573,363.57		
			32,911,588.16
Capital Assets:			
Land and buildings.....	\$19,345,814.78		
Equipment			
Construction and automotive			
Less reserve for depreciation (\$7,979,966.05).....	\$8,841,570.72		
Office, shop, and miscellaneous.....	4,744,496.21		
		13,586,066.93	
			32,931,881.71
Total assets and budgetary resources.....			\$156,094,030.20

Obligations, Reserves and Surplus

Liabilities:			
Claims payable filed.....	\$12,351,511.96		
Accounts payable.....	1,322,968.22		
Reserve for compensation insurance, vacation, sick			
leave, and overtime.....	660,720.32		
Uncleared collections.....	127,643.33		
Deposits			
From Bond Sinking Fund of 1943 for approaches			
to Golden Gate Bridge.....	5,000,000.00		
From General Fund for relocation of State High-			
way, Route 5.....	788,851.95		
			\$20,251,695.78
Reserve for Departmental Operations.....			491,954.82
State's Investment in Capital Assets.....			32,931,881.71

DEPARTMENT OF PUBLIC WORKS, DIVISION OF HIGHWAYS

STATE HIGHWAY FUND—Continued

STATEMENT OF FINANCIAL CONDITION AS OF JUNE 30, 1952—Continued

Obligations, Reserves and Surplus—Continued

Budgetary Obligations:

Uncompleted state highway budget contracts.....	\$91,004,251.92	
Less 1952-53 Fiscal Year contracts.....	17,715,991.61	
		\$73,288,260.31
Uncompleted special budget contracts.....	4,526,129.93	
Day labor projects.....	1,570,349.43	
Engineering and others.....	322,866.76	
		79,707,606.43

Reserve for Loans to California Toll Bridge Authority.....	1,021,596.73
--	--------------

Budgetary Allocations Available for Future Expenditures:

Appropriation—California Toll Bridge Authority	
Division of San Francisco Bay Toll Crossings	
Chapter 1473/51.....	\$502,452.73
Surveys for San Diego-Coronado Tube Chapter	
1345/51.....	200,000.00
	\$702,452.73

Special Budgets

County highways.....	\$3,880,491.13
Access highways.....	505,745.22
	4,386,236.35

State Highway Budgets

State highways in cities.....	\$894,795.36
City streets.....	6,133,360.22
Emergency damage repairs.....	129,125.14
Outdoor advertising.....	20,005.31
Automotive and construction equipment.....	1,589,216.94
Miscellaneous.....	308,648.11
State highways.....	7,525,454.57
	16,600,605.65
	21,689,294.73

Total Obligations, Reserves and Surplus.....	\$156,094,030.20
--	------------------

Trust Group

ASSETS

Agency Trust Accounts in State Treasury:

Deposits for credit accounts on toll bridges and others.....	\$56,508.94
Honor Camp funds	
Camp operating fund.....	39,528.32
Inmates' trust fund.....	8,475.23
Securities held in trust.....	604,000.00
	\$708,512.49

Fund in State Treasury:

Unclaimed trust moneys.....	752.03
-----------------------------	--------

Total Assets.....	\$709,264.55
-------------------	--------------

LIABILITIES

Liability for:

Deposits for credit accounts on toll bridges and others.....	\$660,508.94
Honor Camp funds.....	48,003.55
Cancelled checks.....	752.06
Total Liabilities.....	\$709,264.55

STATEMENT OF BUDGETARY RESOURCES AND ALLOCATIONS FOR FISCAL YEAR ENDING JUNE 30, 1952

Available Budgetary Allocations July 1, 1951:

Appropriations—California Toll Bridge Authority Chapter 2/50, Item 245.1, Division of San Francisco Bay Toll Crossings.....	\$14,218.75
--	-------------

Special Budgets

County highways.....	\$4,958,967.45	
Military access highways.....	655,785.28	
Federal-aid grade separations.....	17,738.19	
		5,632,490.92

State Highway Budgets

State highways in cities, Sec. 203 Streets and Highways Code.....	\$1,569,088.71	
City streets.....	5,266,796.00	
Emergency damage repair.....	1,412,060.92	
Supervision outdoor advertising.....	16,141.03	
State highways.....	7,723,749.14	
Miscellaneous.....	96,434.41	
		16,084,270.21

Total Available Budgetary Allocations.....	\$21,730,979.88
--	-----------------

Add:

Revenues budgeted.....	192,254,373.13
	\$213,985,353.01

Deduct:

Expenditures and encumbrances.....	\$193,745,669.86
Less: Equipment depreciation and sales.....	1,721,167.28
	\$192,024,502.58

Increase in reserve for loans to California Toll Bridge Authority for Division of San Francisco

Bay Toll Crossings.....	271,555.70
	192,296,058.28

Balance:

Budgetary Allocations Available for Future Ex- penditures June 30, 1952.....	\$21,689,294.73
---	-----------------

STATEMENT OF RECEIPTS AND ESTIMATED REVENUES FOR
FISCAL YEAR ENDING JUNE 30, 1952

	Cash receipts ^a	Add estimated uncollected revenue 6/30/52	Deduct estimated uncollected revenue 6/30/51	Net revenue budgeted 1951-52 F.Y.
State Highway Budgets				
1951-52 F.Y. Budget				
Highway users tax revenue.....	\$152,163,337.92			\$152,163,337.92
Federal aid.....	5,921,792.91		b—\$230,837.00	21,748,839.00
Contributions—highway projects.....	696,008.48		b—201,697.98	2,400,620.52
Franchise tax—toll ferries.....	600.00			600.00
Canceled warrants escheated.....	374.00			374.00
Investment earnings.....	198,683.50			198,683.50
Repayment of funds advanced for approaches to San Francisco-Oakland Bay Bridge—Section 30608 Streets and Highways Code.....	6,519,848.91			6,519,848.91
Outdoor advertising fees.....	70,438.66			70,438.66
Contributions—other agencies.....	160,578.27	517,967.77		678,546.04
Totals—1951-1952 F.Y. Budget.....	\$165,731,662.65	\$17,617,090.92	—\$432,534.98	\$183,781,288.55
1950-51 F.Y. Budget.....				
1949-50 F.Y. Budget.....	\$10,945,791.83	\$5,690,869.07	\$16,813,331.46	—\$176,670.56
1948-49 F.Y. Budget.....	316,726.00	90,580.00	668,711.42	—261,405.42
1947-48 F.Y. Budget.....	68,836.18	3,205.57	122,438.94	—50,397.19
	118,045.15	5,000.00	123,045.15	-----
Totals—State Highway Budgets.....	\$177,181,061.81	\$23,406,745.56	\$17,294,991.99	\$183,292,815.38
Special Budgets				
County Highway Budgets.....				
Access Highway Budget.....	\$7,915,957.03	\$8,705,582.60	\$7,655,120.64	\$8,966,418.99
Grade Separation Budget.....	6,416.51	799,260.00	810,537.75	—4,861.24
	93,131.37		93,131.37	-----
Totals—Special Budgets.....	\$8,015,504.91	\$9,504,842.60	\$8,558,789.76	\$8,961,557.75
Totals—State Highway and Special Budgets.....	\$185,196,566.72	\$32,911,588.16	\$25,853,781.75	\$192,254,373.13

^a Excludes equipment depreciation and sales.^b Represents revenue applicable to 1951-52 Fiscal Year budget received prior to July 1, 1951.

STATE HIGHWAY FUND—STATEMENT OF BUDGETARY EXPENDITURES AND
ENCUMBRANCES FOR FISCAL YEAR ENDED JUNE 30, 1952

	Expenditures	Add encumbrances 6/30/52	Deduct encumbrances 6/30/51	Net expenditures and encumbrances
State Highway Budgets				
1951-52 F. Y. Budget				
Capital Outlay				
Major construction and improvement projects-----	\$25,343,307.55	\$53,606,338.25	a—\$1,025,106.82	\$79,974,752.62
Construction engineering-----	6,971,043.54			6,971,043.54
Construction and improvements—state highways in cities				
Section 203, Streets and Highways Code-----	676,351.76	—20.60		676,322.16
Minor improvement and betterment projects-----	576,320.65	341,859.87		918,180.52
Rights of way-----	31,155,167.51			31,155,167.51
Preliminary engineering and design-----	9,162,231.56			9,162,231.56
Aid to Joint Highway Districts-----	17,008.00			17,008.00
Emergency damage repairs-----	773,465.11	578,857.19	a—1,014.83	1,353,337.13
Contingencies-----				
Equipment-----	2,793,134.03			2,793,134.03
Building and plants-----	1,477,804.67	20,445.04		1,498,249.71
Total—Capital Outlay-----	\$78,946,434.38	\$54,547,470.75	a—\$1,026,121.65	\$134,520,026.78
Current Expenses				
Administration—Headquarters Office-----	\$2,247,367.58			\$2,247,367.58
Administration—District Offices-----	2,156,194.96			2,156,194.96
Administration—Division of Contracts and Right of Way-----	205,001.43			205,001.43
Administration—Department of Public Works-----	129,281.34			129,281.34
Prorata charges for services of general administration agencies-----	238,266.10			238,266.10
Maintenance of state highways-----	23,904,403.62	\$186,219.47		24,090,623.09
Highway planning-----	1,320,215.17	2,152.07		1,322,367.24
Operation, maintenance, insurance—San Francisco-Oakland Bay Bridge-----	1,205,559.84	50,230.95		1,255,790.79
Supervision of outdoor advertising-----	66,574.38			66,574.38
Board of Control claims-----	5,714.31			5,714.31
Total—Current Expenses-----	\$31,478,578.73	\$238,602.49		\$31,717,181.22

ANALYSIS OF INCOME RECEIVED BY DIVISION OF HIGHWAYS BY FISCAL YEARS TO JUNE 30, 1952

Fiscal year	Total annual revenue ^a	Federal Government reimbursements	Contributions	State General Fund appropriations ^a	1st, 2d, 3d, Highway Funds	Advertising license fees	Miscellaneous	Highway users tax revenue
1911-1912	\$160,503.04			\$6,933.33	\$153,569.71			
1912-1913	1,255,693.94			20,800.00	1,234,893.94			\$4,655.17
1913-1914	2,346,271.78			20,800.00	2,320,816.61			195,115.33
1914-1915	7,719,658.93			20,800.00	6,503,743.60			1,053,883.03
1915-1916	7,566,984.05		\$190,109.68	20,800.00	6,302,191.34			1,094,625.67
1916-1917	2,676,472.92		77,000.00	35,561.60	1,469,285.65			525,282.27
1917-1918	5,379,741.65	\$59,571.76	265,008.30	24,458.08	4,505,421.24			1,741,701.97
1918-1919	7,601,610.83		79,988.27	267,688.68	5,512,231.91			1,924,299.77
1919-1920	8,491,726.26	526,612.01	20,014.48	20,800.00	6,000,000.00			2,434,800.57
1920-1921	9,132,386.08	1,297,200.85	257,584.66	20,800.00	5,122,000.00			3,018,192.36
1921-1922	24,140,339.40	1,925,603.19	55,693.85	128,300.00	19,012,550.00			3,785,034.95
1922-1923	13,269,702.28	2,969,295.33	128,352.00	370,800.00	6,016,200.00			7,645,337.74
1923-1924	18,257,769.70	2,683,093.33	612,738.63	316,600.00	7,000,000.00			10,934,875.12
1924-1925	16,484,482.53	3,371,711.00	495,935.09	1,065.86	3,181,500.00			12,171,691.01
1925-1926	14,778,797.79	3,287,067.83	375,733.09	181,121.75				19,961,155.90
1926-1927	15,331,219.89	2,978,864.97	170,663.91	10,000.00	b—222,160.50			24,937,044.26
1927-1928	23,814,918.60	2,434,125.74	562,702.94					27,150,374.86
1928-1929	28,678,423.23	3,443,873.79	297,505.18	1,079,094.52				27,845,197.22
1929-1930	31,500,983.35	3,931,822.91	418,785.58					24,787,041.62
1930-1931	32,500,095.88	4,493,802.63	369,022.47	c—207,926.44				27,213,721.36
1931-1932	32,186,234.92	7,205,767.53	173,425.77	20,000.00				26,656,933.08
1932-1933	34,502,696.49	7,108,490.62	180,484.51					27,324,933.48
1933-1934	33,271,262.63	6,298,332.79	293,995.95			\$22,000.81		29,830,381.57
1934-1935	37,866,497.26	10,041,249.32	469,154.67			24,596.24		32,991,507.28
1935-1936	39,908,589.73	9,550,349.23	486,915.31			25,763.17	\$6,573.55	35,263,082.42
1936-1937	49,483,583.41	16,571,766.51	—116,801.77			30,490.80	15,180.45	35,241,782.68
1937-1938	44,952,706.70	8,873,600.09	782,634.60			32,674.33	715.26	37,855,334.78
1938-1939	45,000,245.99	9,269,747.08	460,909.47			28,439.71	—632.95	39,466,365.15
1939-1940	44,338,155.41	6,152,641.50	297,202.34			32,976.79		44,609,183.41
1940-1941	48,841,753.86	7,877,834.54	1,462,901.21			34,652.96		37,477,163.99
1941-1942	50,998,637.06	5,635,224.61	654,882.26			34,343.55	3.23	33,521,435.40
1942-1943	53,719,278.04	15,346,517.40	867,935.21			27,661.44		34,267,762.70
1943-1944	58,417,281.65	10,864,032.89	484,758.31	13,520,000.00		27,055.05		
1944-1945	39,141,969.64	4,693,307.39	85,298.12			29,234.68	66,366.75	

1945-1946	64,885,373.90	4,574,012.34	5,207,950.33	12,000,000.00	31,916.20	235,731.77	42,835,763.26
1946-1947	76,693,102.06	19,069,697.28	1,943,481.04	-----	43,565.74	254,698.49	55,381,659.51
1947-1948	107,258,065.59	25,855,041.17	-4,400,465.80	e-487.40	55,367.80	1,119,019.25	84,629,590.57
1948-1949	159,245,449.65	22,234,591.88	3,107,568.58	e-12,255.27	62,258.54	543,004.33	133,310,281.59
1949-1950	158,235,845.81	17,796,475.18	6,627,334.03	-----	64,588.27	118,326.16	133,620,122.17
1950-1951	167,164,240.83	16,969,428.51	5,471,625.46	-----	61,676.72	819,259.91	143,842,250.23
1951-1952	185,196,566.72	19,991,513.88	6,251,769.85	-----	70,438.66	6,719,506.41	152,163,337.92
Totals	\$1,801,390,319.48	\$285,382,267.08	\$35,169,797.58	\$27,865,754.71	\$74,112,243.50	\$9,904,373.20	d\$1,368,216,181.95

a Includes \$275,733.83 paid direct by State Controller to State Highway Engineer and Highway Commissioners.

b Represents discount on bonds.

c Represents reduction of revenue due to reversion of appropriations.

d Does not include apportionment for quarter ending June 30, 1952, received July, 1952—\$27,675,202.04.

e Includes net earnings on investments \$1,572,330.54; recoveries U. S. war damage claims \$1,787,359.95; franchise tax—toll ferries \$5,400.00; proceeds—sale of Topock Bridge \$18,739.50; cancelled warrants evidenced \$694.30; repayment for Bay Bridge Approach \$6,519,848.91.

ANALYSIS OF INCOME RECEIVED BY DIVISION OF HIGHWAYS BY FISCAL YEARS TO JUNE 30, 1952—Continued

Analysis of Highway Users Tax Revenue *

	1951-52 Fiscal year	1950-51 Fiscal year	1949-50 Fiscal year	1948-49 Fiscal year	1947-48 Fiscal year
Motor vehicle fuel taxes:					
Gasoline tax	\$103,887,483.44	\$96,648,733.20	\$90,845,499.74	\$85,576,141.32	\$71,681,376.06
Use fuel tax	6,986,233.25	5,495,322.23	4,532,978.33	3,734,754.09	3,029,301.32
Miscellaneous	188,216.32	149,783.25	210,598.22	71,164.87	1,603.11
Motor vehicle transportation tax	10,809,964.96	8,672,855.48	7,450,896.25	6,816,461.97	4,826,958.30
Caravan fees	-----	-----	-----	—30.00	138,952.50
Motor vehicle registration and weight fees	38,095,325.53	39,961,465.00	37,052,430.42	43,303,477.91	7,751,399.08
Total apportionments	\$159,967,223.50	\$150,928,359.16	\$140,092,402.96	\$139,501,970.26	\$87,429,590.37
Deduct: Disbursements by State Controller	-----	-----	-----	-----	-----
Contributions to State Retirement System	-----	-----	\$1,208.29	\$1,976.29	-----
To State Controller—Section 2103.1	-----	-----	—62,403.46	102,267.00	\$100,000.00
To counties—Section 2104	\$7,803,885.58	\$7,086,108.93	6,524,475.96	6,087,445.38	2,700,000.00
Net transfer to State Highway Fund	\$152,163,337.92	\$143,842,250.23	\$133,620,122.17	\$133,310,281.59	\$84,629,590.57

* For prior years see Second Annual Report.

FEDERAL REIMBURSEMENTS Analysis of Federal Government Funds Received by Division of Highways by Fiscal Years to June 30, 1952

Fiscal year	Total federal funds	ON STATE SYSTEM							
		Regular federal aid	Urban federal aid	Emergency and public works funds 1930-1935	†Federal land projects	Emergency relief-floods 1938-1940-1950	Strategic network	*Public works administration grants (PWA)	Advanced engineering
1917-1918	\$59,571.76	\$59,571.76							
1919-1920	526,612.01	526,612.01							
1920-1921	1,297,200.85	1,297,200.85							
1921-1922	1,925,603.19	1,925,603.19							
1922-1923	2,969,295.33	2,969,295.33							
1923-1924	2,683,093.33	2,683,093.33							
1924-1925	3,371,711.00	3,371,711.00							
1925-1926	3,287,067.83	3,287,067.83							
1926-1927	2,978,864.97	2,978,864.97							
1927-1928	2,434,125.74	2,434,125.74							
1928-1929	3,443,873.79	3,443,873.79							
1929-1930	3,931,822.91	3,931,822.91							
1930-1931	4,493,802.63	4,493,802.63							
1931-1932	7,205,767.53	4,196,940.18			\$3,008,827.35				
1932-1933	7,108,490.62	3,744,429.15			3,364,061.47				
1933-1934	6,298,332.79	654,740.26			5,643,592.53				
1934-1935	10,041,249.32	32,971.95			9,792,386.75	\$215,890.62			
1935-1936	9,550,349.23	633,045.90			7,517,308.18	79,493.05			
1936-1937	16,571,766.51	4,911,042.70			1,294,076.85	204,262.50			
1937-1938	8,873,600.09	5,454,817.96			556,805.34	131,892.00			
1938-1939	9,269,747.08	4,470,223.49			14,264.76	63,097.00	\$867,830.00	\$757,270.00	
1939-1940	6,152,641.50	3,214,413.47			24,252.12	164,324.00	598,791.74	75,718.41	
1940-1941	7,877,834.54	5,512,786.00				179,889.66	316,189.64	178,514.75	
1941-1942	5,635,224.61	3,896,659.66				29,922.66	159,392.86		
1942-1943	15,346,517.40	3,258,650.78						\$246,602.00	
1943-1944	10,864,032.89	1,575,411.24						643,034.58	
1944-1945	4,693,307.39	464,102.88						95,742.64	
1945-1946	4,574,012.34	529,544.49						424,856.00	\$86,366.00
1946-1947	19,069,697.28	8,151,245.04	\$3,754,386.02					884,473.95	107,102.00
1947-1948	25,855,041.17	9,791,511.38	8,148,358.78					3,851.83	36,733.00
1948-1949	22,234,591.88	7,502,294.48	8,976,998.00					26,676.00	26,644.00
1949-1950	17,796,475.18	6,134,122.30	5,090,623.05					88,370.00	142,145.00
1950-1951	16,969,428.51	7,364,265.79	5,378,000.47						
1951-1952	19,991,513.88	8,672,035.00	5,779,452.88				551,733.00		
Totals	\$285,382,267.08	\$123,567,899.44	\$37,127,819.20	\$31,215,575.35	\$1,153,807.95	\$2,511,223.00	\$2,413,607.00	\$1,011,503.16	\$398,990.00

FEDERAL REIMBURSEMENTS—Continued

Fiscal year	ON AND OFF STATE SYSTEM					Nonhighway work flight strips
	Works program fund		Federal aid secondary		Access highways	
	Highways	Grade crossings	Highways	Grade crossings		
1917-1918						
1919-1920						
1920-1921						
1921-1922						
1922-1923						
1923-1924						
1924-1925						
1925-1926						
1926-1927						
1927-1928						
1928-1929						
1929-1930						
1930-1931						
1931-1932						
1932-1933						
1933-1934						
1934-1935						
1935-1936	\$910,380.15	\$410,121.95				
1936-1937	5,463,326.35	4,699,058.11				
1937-1938	1,124,193.09	1,216,584.62	\$64,007.00	\$325,300.08		
1938-1939	208,140.48	820,926.39	1,023,264.04	1,044,730.92		
1939-1940	41,887.93	92,601.23	557,809.69	1,382,842.91		
1940-1941		217,260.60	662,134.56	811,059.33		
1941-1942		29,809.10	682,747.18	836,693.15		
1942-1943			128,426.34	202,680.44	\$10,459,716.01	\$1,018,002.00
1943-1944			382,192.37	190,571.67	7,267,253.03	806,570.00
1944-1945			137,759.91	76,124.90	3,746,648.89	172,928.17
1945-1946			152,047.15	378,003.20	2,822,599.39	180,596.11
1946-1947			1,131,589.87	88,251.57	4,884,449.01	68,199.82
1947-1948			4,698,345.85	322,764.16	2,814,954.82	29.35
1948-1949			3,951,618.98	1,004,887.13	714,082.90	
1949-1950			4,659,574.17	321,582.19	1,360,058.47	
1950-1951			3,855,065.00	68,737.98	303,359.27	
1951-1952			4,888,745.12	93,131.37	6,416.51	
Totals	\$7,747,928.00	\$7,486,362.00	\$26,975,327.23	\$7,147,361.00	\$34,379,538.30	\$2,245,325.45

* Includes PWA grants in the amount of \$164,572.52 accounted as "Contributions" in ledger accounts.

† Includes work at Hoopa Indian Reservation for \$6,841.99 accounted as a contribution.

For a comparison of these federal reimbursements to apportionments of federal funds to California, refer to the table on page 112.

Expenditures by Division of Highways to June 30, 1952, Classified as to Function

Item	Totals to June 30, 1952		July 1, 1951-June 30, 1952		July 1, 1950-June 30, 1951		July 1, 1949-June 30, 1950	
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent
Preliminary engineering-----	\$60,287,042.29	3.46	\$9,263,390.39	5.13	\$8,061,064.44	5.02	\$6,174,406.87	4.25
Construction engineering--day labor-----			134,432.60	.08	113,313.44	.07	147,741.77	.10
Construction engineering--contracts-----			7,342,209.86	4.07	6,509,603.19	4.05	5,972,273.13	4.11
Construction engineering--total-----	67,576,093.40	3.87						
Right of way-----	190,935,904.65	10.94	31,242,596.35	17.32	32,934,466.50	20.49	20,916,460.07	14.40
Construction and improvement work--day labor-----	133,263,106.08	7.64	5,404,282.33	3.03	5,162,010.47	3.21	5,277,047.58	3.63
Construction and improvement work--contracts-----	699,458,491.19	40.09	67,404,338.22	37.38	54,358,169.20	33.83	58,806,834.25	40.48
Joint highway districts-----	3,932,681.72	.23	95,572.22	.05	71,768.78	.05	223,856.80	.15
Cities $\frac{1}{4}$ cent State highways--construction-----	47,634,646.38	2.73	735,460.60	.41	1,164,658.39	.72	2,472,821.87	1.70
Totals, construction and improvements-----	\$1,203,087,966.31	68.96	\$121,682,492.57	67.47	\$108,375,054.41	67.44	\$99,991,442.34	68.82
Aid to counties-----	\$25,000.00							
Flight strip construction-----	2,245,325.45	.13						
County postwar projects-----	1,499,512.60	.09						
Work for other State agencies-----	3,083,296.29	.18	\$324,700.70	18	\$419,098.08	.26	\$855,756.81	.59
Emergency damage repairs-----	2,517,920.98	.14	2,514,878.58	1.39	3,042.40			
Maintenance-----	285,905,889.83	16.39	24,102,202.89	13.37	20,509,729.98	12.76	19,394,892.68	13.35
Cities $\frac{1}{4}$ cent State highways--maintenance-----	9,695,523.75	.56					5,447.88	
City streets (Section 194-S&H Code)-----	130,919,343.15	7.50	20,223,124.60	11.21	19,265,095.38	11.99	16,950,948.09	11.67
Damage claims paid-----	96,004.31		5,714.31		17,806.55	.01	5,103.77	
Highway planning-----	4,230,584.71	.24	683,145.77	.38	601,836.71	.38	525,329.68	.37
Planning survey-----	3,960,150.87	.23	637,069.40	.36	437,652.67	.27	314,721.57	.22
Supervision of outdoor advertising-----	719,696.15	.04	66,574.38	.04	60,551.25	.04	62,564.31	.04
Plants and equipment-----	27,764,203.11	1.59	5,210,267.23	2.89	2,816,600.36	1.75	1,928,177.44	1.33
Reserves and suspense-----	10,054,122.45	.58	—90,613.37	— .05	3,455,755.28	2.15	964,279.67	.66
Totals, maintenance, special activities, miscellaneous-----	\$482,716,573.65	27.67	\$53,677,064.49	29.77	\$47,587,168.66	29.61	\$41,007,221.90	28.23
Administration expense-----								
At district offices-----	\$27,409,313.06	1.57	\$2,156,194.96	1.19	\$2,078,442.56	1.30	\$1,844,160.35	1.27
At headquarters office-----	23,330,221.47	1.34	2,247,367.58	1.25	2,007,351.93	1.25	1,895,547.65	1.26
Division of Contracts and Rights of Way-----	1,285,435.26	.07	205,001.43	.12	190,600.68	.12	166,472.25	.12
Department of Public Works-----	1,515,085.09	.09	129,281.34	.07	127,561.99	.08	102,651.17	.07
Other State departments-----	5,025,155.20	.29	238,266.10	.13	331,945.07	.20	346,335.30	.23
Paid direct by State Controller-----	275,733.33	.01						
Federal--non-highway-----	7,744.73							
Total administration-----	\$58,848,688.14	3.37	\$4,976,111.41	2.76	\$4,735,902.23	2.95	\$4,285,166.72	2.95
Grand totals-----	\$1,744,653,228.10	100.00	\$180,355,668.47	100.00	\$160,698,125.30	100.00	\$145,283,830.96	100.00

Expenditures by Division of Highways to June 30, 1952, Classified as to Function—Continued

Item	July 1, 1948-June 30, 1949		July 1, 1947-June 30, 1948		July 1, 1946-June 30, 1947		March 1, 1912-June 30, 1946	
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent
Preliminary engineering-----	\$5,462,960.84	3.30	\$3,563,337.31	2.86	\$2,854,510.81	3.14	\$24,907,371.63	2.84
Construction engineering—day labor-----	150,033.16	.09	102,499.14	.08	101,328.37	.11	-----	-----
Construction engineering—contracts-----	6,243,052.74	3.77	5,150,730.54	4.14	3,876,767.52	4.27	-----	-----
Construction engineering—total-----	26,366,758.76	15.95	14,998,513.06	12.05	8,744,908.70	9.63	31,732,107.94	3.61
Right of way-----	4,419,077.23	2.67	3,668,755.15	2.95	3,357,897.17	3.70	55,732,201.21	6.35
Construction and improvement work—day labor-----	65,564,678.72	39.66	55,071,632.22	44.24	42,083,638.48	46.36	105,914,026.75	12.06
Construction and improvement work—contracts-----	112,000.00	.07	73,030.10	.06	150,000.00	.17	356,169,000.10	40.58
Joint highway districts-----	5,075,459.40	3.08	5,574,013.72	4.48	3,920,505.15	4.32	3,206,453.82	.37
Cities $\frac{1}{4}$ cent State highways—construction-----	-----	-----	-----	-----	-----	-----	28,691,727.25	3.27
Totals, construction and improvements-----	\$113,394,020.85	68.59	\$88,202,511.24	70.86	\$65,089,556.20	71.70	\$606,352,888.70	69.08
Aid to counties-----	-----	-----	-----	-----	-----	-----	\$25,000.00	-----
Flight strip construction-----	-----	-----	-----	-----	-----	-----	2,246,599.91	.26
County postwar projects-----	-----	-----	-----	-----	-----	-----	1,460,158.21	.17
Work for other state agencies-----	-----	-----	-----	-----	-----	-----	707,690.31	.08
Emergency damage repairs-----	\$466,043.84	.28	310,006.35	.25	39,354.39	.04	-----	-----
Maintenance-----	18,301,723.10	11.07	15,617,718.55	12.55	11,877,566.30	13.09	176,102,056.33	20.06
Cities $\frac{1}{4}$ cent State highways—maintenance-----	36,553.58	.02	711,582.15	.57	889,304.95	.98	8,052,635.19	.92
City streets (Section 194-S&H Code)-----	22,518,387.52	13.62	8,102,917.93	6.51	6,167,590.59	6.79	37,691,279.04	4.29
Damage claims paid-----	3,414.01	-----	10,722.58	.01	-----	-----	53,243.09	.01
Highway planning-----	493,480.79	.30	431,154.60	.35	237,089.38	.26	1,258,547.78	.14
Planning survey-----	386,489.42	.24	366,644.30	.29	339,693.64	.37	1,477,879.87	.17
Supervision of outdoor advertising-----	57,979.41	.04	55,593.72	.04	41,677.70	.05	374,755.38	.04
Plants and equipment-----	3,704,539.11	2.24	6,166,393.95	4.96	2,546,797.00	2.81	5,391,428.01	.61
Reserves and suspense-----	1,552,452.63	.94	578,606.89	.46	581,476.63	.64	3,012,164.92	.35
Totals, maintenance, special activities, miscellaneous-----	\$47,521,063.41	28.75	\$32,351,276.79	25.99	\$22,719,340.36	25.03	\$237,853,438.04	27.10
Administration expense-----	-----	-----	-----	-----	-----	-----	-----	-----
At district offices-----	\$1,943,382.98	1.17	\$2,055,005.99	1.65	\$1,420,220.33	1.57	\$15,911,905.89	1.81
At headquarters-----	1,790,110.88	1.08	1,312,744.43	1.05	1,062,070.95	1.17	13,085,028.05	1.49
Division of Contracts and Rights of Way-----	148,873.04	.09	125,613.07	.10	93,896.24	.10	354,978.55	0.4
Department of Public Works-----	99,041.32	.06	85,987.11	.07	68,541.91	.07	902,020.25	.10
Other State departments-----	415,169.16	.26	346,266.90	.28	324,244.48	.36	3,022,928.19	.35
Paid direct by State Controller-----	-----	-----	-----	-----	-----	-----	275,733.33	.03
Federal—non-highway-----	-----	-----	17.10	-----	300.34	-----	7,427.29	-----
Total administration-----	\$4,396,577.38	2.66	\$3,925,634.60	3.15	\$2,969,274.25	3.27	\$33,560,021.55	3.82
Grand totals-----	\$165,311,661.64	100.00	\$124,479,422.63	100.00	\$90,778,170.81	100.00	\$877,766,348.29	100.00

EXPENDITURES BY DIVISION OF HIGHWAYS BY FISCAL YEARS TO JUNE 30, 1952
Classified as to Location and Purpose

Fiscal year	Total annual expenditures	EXPENDITURES ON HIGHWAYS							Maintenance
		Construction—Reconstruction—Improvements (Includes right of way and engineering)					On state system		
		On state system			Off state system		On state system		
		Rural	Incorporated cities ^a	Rural	Incorporated cities	Rural	Incorporated cities ^a		
1912-1922	\$68,361,014.24	\$58,325,400.50					\$6,054,750.20		
1922-1923	18,181,744.42	14,624,956.92					2,077,224.82		
1923-1924	16,475,994.29	12,034,358.88					2,639,929.64		
1924-1925	15,813,595.38	11,942,581.96					3,177,066.68		
1925-1926	16,064,960.01	11,568,911.25					3,426,747.56		
1926-1927	15,983,286.87	10,353,680.23					5,656,244.73		
1927-1928	15,886,156.89	10,075,388.80					4,462,993.83		
1928-1929	25,473,504.47	19,353,930.87					4,926,454.10		
1929-1930	33,144,154.41	25,192,676.42					6,752,845.54		
1930-1931	32,301,209.22	25,289,922.75					5,678,964.43		
1931-1932	35,162,149.64	26,465,989.16					6,843,801.35		
1932-1933	32,892,832.02	25,723,627.17	\$4,638,166.41				5,798,548.59		
1933-1934	37,309,610.00	23,402,416.28	8,928,290.86				6,932,564.30		\$152,734.25
1934-1935	36,950,873.25	18,104,194.71	8,634,353.94				7,816,765.34		391,000.05
1935-1936	39,998,463.64	16,701,201.60	8,300,705.08			\$1,268,465.33	8,106,142.64		344,244.63
1936-1937	53,022,109.28	27,797,019.96	8,300,705.08			1,101,529.62	8,242,656.83		585,831.87
1937-1938	45,518,395.91	20,583,220.64	6,037,406.96			479,047.72	10,660,911.63		815,667.77
1938-1939	41,559,637.90	18,693,429.11	6,321,442.34			951,170.21	8,251,152.62		796,911.44
1939-1940	40,884,541.39	13,797,241.12	9,728,359.64			280,213.25	9,264,651.07		806,795.17
1940-1941	44,482,441.20	17,813,894.42	7,417,103.64			355,928.77	10,411,642.26		868,571.11
1941-1942	47,029,403.90	17,225,613.06	8,525,185.35			818,644.01	10,829,171.28		770,869.58
1942-1943	45,621,190.83	14,362,833.06	7,712,064.09			5,931,094.80	7,969,320.59		630,487.03
1943-1944	39,629,017.42	13,101,706.83	6,957,153.30			2,573,799.26	8,942,213.48		678,702.17
1944-1945	34,184,620.42	9,058,987.84	7,262,843.91			960,649.42	9,517,678.37		725,291.70
1945-1946	45,835,441.29	15,408,000.51	9,334,769.81			366,536.78	11,315,872.43		831,270.44
1946-1947	90,778,170.81	36,579,031.21	22,903,661.00			2,956,086.33	11,841,138.56		925,732.69
1947-1948	124,479,422.63	41,457,090.93	36,142,965.49			8,895,364.24	14,500,884.68		1,828,416.02
1948-1949	165,311,661.64	60,553,256.77	44,259,366.15			7,604,029.80	15,724,397.17		2,613,879.51
1949-1950	145,283,830.96	56,865,275.87	35,374,025.86			6,889,645.56	16,010,264.50		3,390,076.06
1950-1951	160,698,125.30	62,805,589.56	40,012,581.72			5,462,143.96	17,017,848.81		3,491,881.17
1951-1952	180,335,668.47	72,481,402.84	43,202,077.17			8,402,527.55	20,247,504.10		3,854,698.79
Totals	\$1,744,653,228.10	\$807,742,831.23	\$321,692,522.72			\$55,296,876.61	\$271,098,352.13		\$24,503,061.45

EXPENDITURES BY DIVISION OF HIGHWAYS BY FISCAL YEARS TO JUNE 30, 1952—Continued

Classified as to Location and Purpose

Fiscal year	EXPENDITURES ON HIGHWAYS SUBVENTIONS		Administration special investigations and highway planning survey	Equipment, plants, reserves, suspense and miscellaneous	Supervision of outdoor advertising	Flight strip construction
	To counties ^b	To cities ^a				
1912-1922	-----	-----	\$1,280,938.17	\$2,699,925.37	-----	-----
1922-1923	-----	-----	790,885.95	638,876.73	-----	-----
1923-1924	-----	-----	765,139.85	1,036,565.92	-----	-----
1924-1925	-----	-----	747,845.54	—154,600.39	-----	-----
1925-1926	-----	-----	707,189.22	312,111.98	-----	-----
1926-1927	-----	-----	819,675.49	—896,313.58	-----	-----
1927-1928	-----	-----	850,542.37	422,231.89	-----	-----
1928-1929	-----	-----	997,208.42	115,911.08	-----	-----
1929-1930	-----	-----	1,066,796.62	—204,444.17	-----	-----
1930-1931	-----	-----	1,050,133.14	—129,260.96	-----	-----
1931-1932	-----	-----	1,086,879.08	426,256.85	-----	-----
1932-1933	-----	-----	1,100,206.71	207,889.45	-----	-----
1933-1934	-----	-----	1,196,885.82	305,575.75	-----	-----
1934-1935	-----	-----	1,432,096.29	233,108.91	-----	-----
1935-1936	-----	-----	1,308,224.36	983,360.91	-----	-----
1936-1937	-----	-----	1,935,760.95	119,403.55	-----	-----
1937-1938	-----	-----	1,865,727.42	758,014.05	-----	-----
1938-1939	-----	-----	1,809,589.34	465,064.96	-----	-----
1939-1940	-----	-----	1,873,339.46	442,411.28	-----	-----
1940-1941	-----	-----	2,225,063.14	396,757.11	-----	-----
1941-1942	-----	-----	2,302,842.51	1,259,971.07	-----	-----
1942-1943	-----	-----	2,213,377.30	—812,284.92	-----	-----
1943-1944	-----	-----	2,121,896.02	—794,712.59	-----	-----
1944-1945	-----	-----	2,020,328.01	52,265.20	-----	-----
1945-1946	-----	-----	2,727,478.02	1,280,450.88	-----	-----
1946-1947	-----	-----	3,546,057.27	3,128,273.63	-----	-----
1947-1948	-----	-----	6,444,492.83	7,065,729.78	-----	-----
1948-1949	-----	-----	8,397,994.99	4,723,433.50	-----	-----
1949-1950	-----	-----	22,798,998.23	5,276,547.59	-----	-----
1950-1951	-----	-----	17,075,069.59	5,125,217.97	-----	-----
1951-1952	-----	-----	71,768.78	6,709,260.27	-----	-----
Totals	\$5,457,194.32	\$133,311,517.39	\$67,039,423.72	\$40,997,626.16	\$719,696.15	\$2,245,325.45

^a Includes Cities $\frac{1}{2}$ cent State Highway Funds.^b Includes Joint Highway Districts, County Postwar Projects and Aid to Counties.^c Includes Cities—City Street Funds and Cities $\frac{1}{2}$ cent State Highway Funds.

STATEMENT OF EXPENDITURES IN COUNTIES FOR CONSTRUCTION, RECONSTRUCTION, IMPROVEMENTS, AND MAINTENANCE AND CONTRIBUTIONS RECEIVED IN CONNECTION THEREWITH, JANUARY 1, 1912, TO JUNE 30, 1952
(Expenditures Shown Include Expenditures of Contributions Received From Counties and Others and Expenditures in Joint Highway Districts, But Excludes City Gasoline Tax Expenditures)

County	Construction, Reconstruction, Improvements			Contributions		Maintenance expenditures Jan. 1, 1912- June 30, 1952
	Expenditures		Totals Jan. 1, 1912- June 30, 1952	Totals Jan. 1, 1912- June 30, 1952		
	51-52 Fiscal Year July 1, 1951- June 30, 1952	Totals Jan. 1, 1912- June 30, 1952				
Alameda.....	\$8,605,165.94	\$60,238,850.71	\$50,862.46	\$393,380.27	\$725,470.36	\$4,939,369.35
Alpine.....	419,069.54	1,477,797.34	33,276.00	73,702.00	77,923.62	1,460,920.62
Amador.....	426,858.29	3,943,286.37	—45.00	100,757.19	192,159.94	2,951,314.21
Butte.....	796,833.90	9,778,989.42	70,000.00	809,276.59	233,953.86	3,657,187.44
Calaveras.....	483,004.41	3,990,223.41	—628.60	146,792.27	167,569.96	2,666,195.60
Colusa.....	575,277.04	4,812,872.04	84,681.15	203,967.82	96,065.99	1,782,561.55
Contra Costa.....	2,750,858.75	19,207,153.43	4,637.43	256,448.57	457,505.39	4,036,664.49
Del Norte.....	500,246.04	10,131,614.52	—	67,599.74	251,912.40	4,485,883.31
El Dorado.....	1,132,497.06	6,955,755.29	56,989.21	137,494.78	387,765.39	4,655,280.45
Fresno.....	1,361,622.25	20,503,400.12	194,425.23	397,385.24	474,275.15	5,091,199.84
Glenn.....	232,482.27	4,361,431.52	45,883.34	360,013.85	93,054.37	1,499,945.34
Humboldt.....	2,297,896.95	24,947,754.99	—7,752.83	697,757.39	813,094.91	11,506,828.93
Imperial.....	982,376.41	21,093,883.40	—	124,304.19	283,633.53	4,825,497.49
Inyo.....	380,061.27	6,572,293.18	47,242.34	52,871.76	246,438.68	4,037,849.15
Kern.....	4,423,361.68	40,373,930.74	1,236,616.14	1,975,661.79	822,889.58	11,121,905.24
Kings.....	172,608.45	3,401,465.72	10,181.33	72,238.45	130,795.55	1,710,596.37
Lake.....	380,255.46	5,082,947.62	1,952.89	9,658.33	167,203.06	2,855,059.56
Lassen.....	429,136.92	7,230,158.82	38,428.11	464,720.78	345,305.71	3,808,864.70
Los Angeles.....	36,123,299.13	227,158,794.47	827,149.79	4,276,275.06	2,686,764.28	20,796,384.26
Madera.....	715,018.41	8,769,495.86	14,886.31	185,466.18	150,715.90	1,626,593.50
Marin.....	1,765,941.25	16,246,362.10	—19,059.39	162,485.18	299,834.05	3,724,630.70
Mariposa.....	1,591,248.39	6,913,818.33	—	125,880.09	103,877.29	2,037,022.80
Mendocino.....	518,365.53	23,123,330.52	68,706.48	323,488.28	604,270.82	9,423,742.99
Merced.....	1,489,164.51	13,466,542.90	61,605.72	185,191.67	271,113.79	3,374,244.24
Modoc.....	569,741.37	7,648,577.80	56,026.00	349,367.37	220,166.53	3,065,130.15
Mono.....	643,968.89	6,671,700.90	3,948.82	7,375.76	512,196.18	5,669,070.62
Monterey.....	1,800,555.43	28,753,626.12	17,940.21	452,523.59	598,113.21	6,499,273.19
Napa.....	367,599.69	5,498,661.30	26,639.02	157,058.58	128,092.22	2,314,502.14
Nevada.....	463,039.51	7,508,669.77	3,684.95	114,311.17	501,000.55	5,057,854.17
Orange.....	5,027,703.71	28,039,094.04	130,453.16	418,614.89	488,506.48	5,403,799.81

Placer.....	223,579.19	15,306,693.37	107,713.51	256,152.75	481,199.76	5,015,348.25
Plumas.....	144,943.52	8,580,950.47	109,492.00	361,427.54	458,105.38	4,376,697.76
Riverside.....	3,868,716.52	31,921,352.28	175,195.05	977,136.27	685,004.05	8,592,194.19
Sacramento.....	1,400,136.64	17,304,194.04	314,728.82	988,683.25	442,063.52	5,509,002.10
San Benito.....	214,013.91	4,842,574.72	-----	73,440.24	115,429.66	1,475,975.27
San Bernardino.....	3,380,940.40	42,473,359.71	94,513.56	73,156.60	1,364,816.12	17,604,749.65
San Diego.....	7,715,009.02	59,139,077.71	317,491.28	1,938,529.17	766,809.66	8,544,994.97
San Francisco.....	3,510,579.94	34,120,914.97	-----	324,034.15	302,586.43	909,855.65
San Joaquin.....	839,886.80	17,878,822.20	157,879.12	324,125.45	387,195.34	4,999,118.20
San Luis Obispo.....	1,722,692.62	21,053,989.32	56,986.97	218,155.99	566,634.49	6,067,392.20
San Mateo.....	2,102,429.29	31,950,461.14	62,259.35	3,576,983.75	612,460.86	5,544,200.87
Santa Barbara.....	2,920,053.39	32,097,166.76	458,565.36	1,287,305.47	473,111.90	5,838,645.56
Santa Clara.....	3,008,746.43	25,522,461.47	74,582.28	2,023,801.50	415,809.74	5,363,854.71
Santa Cruz.....	343,538.90	11,250,835.53	4,357.84	683,984.89	247,813.59	3,599,950.07
Shasta.....	825,834.66	24,506,769.68	1,200.00	2,125,322.98	427,891.74	7,192,256.53
Sierra.....	647,927.69	2,283,231.19	41,559.00	63,188.34	190,221.25	1,695,773.32
Siskiyou.....	903,314.69	14,477,080.49	46.55	253,924.68	459,278.56	6,372,426.71
Solano.....	2,000,658.31	22,885,318.21	76,536.73	139,213.03	393,892.19	4,672,090.62
Sonoma.....	1,287,085.73	14,252,363.92	116,666.77	356,016.00	481,690.47	5,835,770.69
Stanislaus.....	774,808.55	8,746,830.70	75,803.42	198,846.47	146,232.37	1,846,529.34
Sutter.....	446,799.28	4,178,175.15	25,570.06	335,630.53	48,573.17	834,059.36
Tehama.....	278,582.58	9,188,335.72	-----	278,292.63	245,975.78	4,211,478.38
Trinity.....	441,764.59	8,307,980.50	2,385.16	41,995.59	240,606.23	3,248,369.26
Tulare.....	2,094,451.21	16,979,266.09	194,522.60	722,622.93	402,824.27	4,866,668.65
Tuolumne.....	752,481.27	3,908,065.64	-----	13,914.62	262,238.74	3,907,887.81
Ventura.....	2,414,968.72	24,106,263.07	132,399.35	149,154.35	585,007.40	6,961,735.38
Yolo.....	1,265,545.71	11,240,770.40	38,417.26	173,783.44	284,690.08	3,643,368.61
Yuba.....	506,562.54	5,330,790.82	37,599.20	257,493.76	82,371.39	1,090,123.51
Totals.....	\$123,461,910.55	\$1,157,756,578.02	\$5,729,108.41	\$31,898,385.20	\$24,102,202.89	\$285,905,889.83

SERVICE AND SUPPLY DEPARTMENT
Statement of Financial Transactions, July 1, 1951, to June 30, 1952

	Northern warehouse	Southern warehouse	Totals
Sales			
Cost of sales:			
Inventories, July 1, 1951.....	\$1,219,372.43	\$736,408.05	\$1,955,780.48
Inventory adjustments.....	-----	-----	-----
	\$818,565.62	\$587,236.43	\$1,405,802.05
	—440.03	—494.83	—934.86
Adjusted inventories			
Purchases.....	-----	-----	-----
	\$818,125.59	\$586,741.60	\$1,404,867.19
	1,152,288.92	671,072.71	1,823,361.63
Inventories and purchases			
Inventories, June 30, 1952.....	-----	-----	-----
	\$1,970,414.51	\$1,237,814.31	\$3,208,228.82
	882,578.84	623,459.93	1,506,038.77
Cost of sales (disbursements)	1,087,835.67	634,354.38	\$1,722,190.05
	\$131,536.76	\$102,053.67	\$233,590.43
Gross profit from sales (markup)			
Operating expense:			
Salaries and wages.....	\$81,206.27	\$63,653.57	\$144,859.84
Paid overtime.....	3,049.12	1,594.52	4,643.64
Equipment rental.....	3,742.66	3,762.65	7,505.31
Equipment operation expense.....	1,302.71	1,052.72	2,355.43
Light, heat, power, water.....	2,236.36	2,057.25	4,293.61
Telephone and telegraph.....	1,056.87	1,774.80	2,831.67
Miscellaneous office expense.....	1,271.15	918.84	2,189.99
Packaging and shipping supplies.....	3,333.32	630.20	3,963.52
Miscellaneous and special warehouse expense.....	2,045.15	1,303.84	3,348.99
Inventory adjustments.....	—218.98	—406.66	—625.64
Abate ments to operating expense.....	—3,453.35	—1,247.99	—4,701.34
Price adjustments.....	—1,938.54	—823.90	—2,762.44
Total operating expense	93,632.74	74,269.84	167,902.58
Gross gain from warehouse operations			
Other expense:			
Outgoing freight.....	\$16,832.19	\$17,727.22	\$34,559.41
Research and testing.....	1,318.64	1,186.55	2,505.19
Total other expense	18,150.83	18,913.77	37,064.60
Net gain from operations			
Cash discount earned.....	\$19,753.19	\$8,870.06	\$28,623.25
	4,727.05	3,422.61	8,149.66
Net income for year			
Surplus, July 1, 1951.....	\$24,480.24	\$12,292.67	\$36,772.91
Surplus adjustments.....	-----	-----	-----
	\$51,711.61	\$16,625.82	\$68,337.43
	—4,852.55	38.83	—4,813.72
Accumulated Surplus, June 30, 1952	46,859.06	16,664.65	63,523.71
	\$71,339.30	\$28,937.32	\$100,296.62

Summary of Financial Transactions, July 1, 1947, to June 30, 1952

	Northern warehouse		Southern warehouse		Totals
Sales-----					
Cost of sales:		\$4,114,024.52		\$2,578,017.81	\$6,692,042.33
Purchases-----	\$4,528,471.62		\$2,869,393.60		\$7,397,865.22
Inventory adjustments-----	29,392.76		23,861.56		53,254.32
Inventories, June 30, 1952-----	\$4,499,078.86		\$2,845,532.04		\$7,344,610.90
	882,578.84		623,459.93		1,506,038.77
Cost of sales (disbursements)-----		3,616,500.02		2,222,072.11	5,838,572.13
Gross profit from sales (markup)-----		\$497,524.50		\$355,945.70	\$853,470.20
Operating expense-----		388,863.40		299,820.86	688,684.26
Gross gain from warehouse operations-----		\$108,661.10		\$56,124.84	\$164,785.94
Other expense:					
Research and testing-----	\$4,367.25		\$2,945.49		\$7,312.74
Outgoing freight-----	62,224.11		46,433.38		108,657.49
Net gain from operations-----		66,591.36		49,378.87	115,970.23
Cash discount earned-----		\$42,069.74		\$6,745.97	\$48,815.71
		8,598.11		6,054.66	14,652.77
Net income-----		\$50,667.85		\$12,800.63	\$63,468.48
Surplus adjustments-inventory valuation-----		20,671.45		16,156.69	36,828.14
Accumulated Surplus, June 30, 1952-----		\$71,339.30		\$28,957.32	\$100,296.62

Operating expense shown in above statements represent only expense chargeable to warehouse operations. The administrative expense of the Service and Supply Department, aggregating \$161,044.27 for the 1951-52 Fiscal Year and \$693,951.82 to date, is charged to the Headquarters administration accounts for the reason that the department performs many other functions in addition to operating the warehouses.

STATE HIGHWAY OPERATING BUDGET, 1952-1953 FISCAL YEAR

Statement of Budgetary Transactions as of June 30, 1952 *

	From 1951-52 fiscal year budget	Original budget	Budgetary adjustments	Contributions	Adjusted budget and contributions	Expenditures authorized work orders	Unencumbered balance available
Preliminary engineering:							
North.....		\$3,300,000.00	\$900,000.00		\$4,200,000.00	\$-6,567.50	\$4,206,567.50
Contributions—north.....				\$6,567.50	6,567.50	6,567.50	
South.....		4,700,000.00	1,100,000.00		5,800,000.00	-3,594.17	5,803,594.17
Contributions—south.....				3,594.17	3,594.17	3,594.17	
Totals.....		\$8,000,000.00	\$2,000,000.00	\$10,161.67	\$10,010,161.67		\$10,010,161.67
Right of way:							
North.....		\$11,474,000.00			\$11,474,000.00		\$11,474,000.00
South.....		19,863,000.00			19,863,000.00	-8,881.58	19,871,881.58
Contributions—south.....				\$8,881.58	8,881.58	8,881.58	
Totals.....		\$31,337,000.00		\$8,881.58	\$31,345,881.58		\$31,345,881.58
Construction engineering:							
North.....		\$3,200,000.00	\$600,000.00		\$3,800,000.00	\$558,730.47	\$3,241,269.53
Contributions—north.....				\$6,269.53	6,269.53	6,269.53	
South.....		3,500,000.00	700,000.00		4,200,000.00	978,853.35	3,221,146.65
Contributions—south.....				\$6,146.65	86,146.65	86,146.65	
Totals.....		\$6,700,000.00	\$1,300,000.00	\$92,416.18	\$8,092,416.18	\$1,630,000.00	\$6,462,416.18
Construction projects:							
North.....		\$37,713,000.00	\$-3,174,761.16		\$34,538,238.84	\$9,257,552.30	\$25,280,686.54
Contributions—north.....				\$69,226.30	69,226.30	69,226.30	
South.....		36,130,000.00	-759,405.64		35,370,594.36	11,365,895.68	24,004,698.68
Contributions—south.....				18,757.01	18,757.01	18,757.01	
Totals.....		\$73,843,000.00	\$-3,934,166.80	\$87,983.31	\$69,996,816.51	\$20,711,431.29	\$49,285,385.22
Minor improvements and betterments:							
North.....		\$600,000.00			\$600,000.00		\$600,000.00
South.....		400,000.00			400,000.00		400,000.00
Totals.....		\$1,000,000.00			\$1,000,000.00		\$1,000,000.00

Cities 1/4 cent State highways:	\$788,797.09				\$788,797.09	\$26,178.16	\$762,618.93
North.....	105,998.27				105,998.27	57,827.45	48,170.82
South.....							
Totals.....	\$894,795.36				\$894,795.36	\$84,005.61	\$810,789.75
Joint highway districts:							
North.....				\$47,659.00	\$47,659.00		\$47,659.00
Contingency reserves:							
North.....	\$5,016,506.82	\$2,558,243.00	\$—	\$866,406.44	\$6,708,343.38		\$6,708,343.38
South.....	2,574,490.35	2,898,408.00		342,339.55	5,815,237.90		5,815,237.90
Totals.....	\$7,590,997.17	\$5,456,651.00	\$—	\$524,066.89	\$12,523,581.28		\$12,523,581.28
Summary:							
North.....	\$5,805,303.91	\$58,845,243.00	\$—	\$2,493,508.60	\$62,239,101.64	\$9,917,956.76	\$52,321,144.88
South.....	2,680,488.62	67,491,408.00		1,382,933.91	71,672,209.94	12,507,480.14	59,164,729.80
Totals.....	\$8,485,792.53	\$126,336,651.00	\$—	\$1,110,574.69	\$133,911,311.58	\$22,425,436.90	\$111,485,874.68
City streets.....	\$6,130,896.15	\$21,803,532.00		\$167,789.00	\$28,102,217.15	\$389,236.46	\$27,712,980.69
General maintenance.....		23,000,000.00		—13,000,000.00	10,000,000.00	179,880.00	9,820,120.00
Major slides.....				2,250,000.00	2,250,000.00	21,500.00	2,228,500.00
Replacement and improved service.....				9,000,000.00	9,000,000.00	3,336,121.00	5,663,879.00
Maintenance performed by cities.....				1,750,000.00	1,750,000.00	74,952.00	1,675,048.00
Buildings and plants.....		3,500,000.00		839,725.92	4,339,725.92	1,425,041.92	2,914,684.00
Highway planning.....		1,500,000.00		147,997.94	1,647,997.94	69,497.94	1,578,500.00
Construction and automotive equipment.....	1,589,216.94				1,589,216.94		1,589,216.94
Nonrental equipment.....		5,000,000.00		420,000.00	420,000.00		5,000,000.00
Administration.....		68,000.00			88,005.31		88,005.31
Supervision of outdoor advertising.....	20,005.31						
Federal-aid secondary reserve.....		5,282,000.00		—5,282,000.00			
Emergency damage repairs.....	129,125.14				129,125.14		129,125.14
Reserves for legislative appropriations.....	1,632,527.63			91,521.83	1,724,049.46		1,724,049.46
Totals.....	\$17,987,563.70	\$186,490,183.00	\$—	\$4,725,540.00	\$199,951,649.44	\$28,341,666.22	\$171,609,983.22

* After giving effect to July and August votes of Highway Commission transferring unexpended 1951-1952 fiscal Year Budget funds and revising 1952-1953 Fiscal Year Budget to conform to revised revenue estimates and expenditure program.	
† Increase in highway users tax apportionment	\$3,700,246.00
Decrease in federal and primary apportionment	-79,309.00
Decrease in federal aid urban apportionment	-93,644.00
Decrease in federal aid secondary apportionment	-48,662.00

—3,625,000.00
—4,579,171.00
—\$4,725,540.00

each expenditures elim-
inated to county highway

ent on Bay Bridge approp-
rior fiscal year
apportionment transfer

Estimated reimbursement—account, in primary Federal-aid secondary budget

transferring unex-	\$3,700,246.00
1953 Fiscal Year	—79,309.00
program.	—93,644.00
	—48,662.00

of Highway Commission
funds and revising 1952
estimates and expenditure p

July and August votes
Fiscal Year Budget for
to revised revenue esti-
users tax apportionment
and primary apportionment
and urban apportionment
and secondary apportionment

* After giving effect to the amended 1951-1952 Budget to conform
† Increase in highway
Decrease in federal aid
Decrease in federal aid
Decrease in federal aid

STATE HIGHWAY OPERATING BUDGET, 1951-1952 FISCAL YEAR
Statement of Budgetary Transactions as of June 30, 1952

	From 1950-1951 fiscal year budget	Original budget	Budgetary adjustment	Contributions	Adjusted budget and contributions	Expenditures and obligations	Unexpended balance
Preliminary engineering:							
North-----		\$2,750,000.00	\$1,667,257.30		\$4,417,257.30	\$4,417,257.30	
Contributions—north-----				\$3,326.29	3,326.29	3,326.29	
South-----		4,000,000.00	732,001.28		4,732,001.28	4,732,001.28	
Contributions—south-----				9,646.69	9,646.69	9,646.69	
Totals-----		\$6,750,000.00	\$2,399,258.58	\$12,972.98	\$9,162,231.56	\$9,162,231.56	
Right of way:							
North-----		\$9,531,000.00	\$2,903,039.06		\$12,434,039.06	\$12,434,039.06	
South-----		13,325,000.00	5,264,101.59		18,589,101.59	18,589,101.59	
Contributions—south-----				\$132,026.86	132,026.86	132,026.86	
Totals-----		\$22,856,000.00	\$8,167,140.65	\$132,026.86	\$31,155,167.51	\$31,155,167.51	
Construction engineering:							
North-----		\$3,200,000.00	\$—206,842.89		\$2,993,157.11	\$2,993,157.11	
Contributions—north-----				\$15,214.27	15,214.27	15,214.27	
South-----		3,500,000.00	381,896.29		3,881,896.29	3,881,896.29	
Contributions—south-----				81,375.87	81,375.87	81,375.87	
Totals-----		\$6,700,000.00	\$175,053.40	\$96,590.14	\$6,971,643.54	\$6,971,643.54	
Construction projects:							
North-----		\$33,413,000.00	\$6,139,684.85		\$39,552,684.85	\$39,552,684.85	\$154.56 ^b
Contributions—north-----				\$738,303.34	738,303.34	738,303.34	
South-----		39,445,500.00	137,652.10		39,583,152.10	39,583,110.31	41.79 ^b
Contributions—south-----				1,391,823.10	1,391,823.10	1,356,599.47	35,223.63 ^a
Totals-----		\$72,858,500.00	\$6,277,336.95	\$2,130,126.44	\$81,265,963.39	\$81,230,543.41	\$35,419.98
Minor improvements and betterments:							
North-----		\$600,000.00	\$—84,041.13		\$515,958.87	\$515,958.87	
Contributions—north-----				\$5,675.00	5,675.00	5,675.00	
South-----		400,000.00	—12,955.07		387,044.93	387,044.93	
Contributions—south-----				10,757.37	10,757.37	9,501.72	\$1,255.65 ^a
Totals-----		\$1,000,000.00	\$—96,996.20	\$16,432.37	\$919,436.17	\$918,180.52	\$1,255.65

DIVISION OF HIGHWAYS

[illegible]

^a Less contributions held pending determination of ultimate disposition thereof	36,479.28
^b Less \$20,000.00 and \$5,750.00 north and south Contingency Reserve respectively, \$2,464.07 City streets and amounts marked on other function to augment going projects	28,410.42
^c Add overdraft in Work for Other State Agencies budgeting of supplemental agreement pending	1,103.23
Transferred to 1952-53 fiscal year budget	\$17,987,563.70

* Increase in highway users tax apportionments	\$6,763,337.92	Decrease in federal aid primary apportionments	-25,979.00	Interest on bond investments	198,683.50
Reimbursement Bay Bridge approach expenditures	6,519,848.91	Decrease in federal aid urban apportionment	15,211.00	Canceled warrants escheated	374.00
Service agreements—work for other state agencies	678,546.04	Decrease in federal aid secondary apportionment	-423,145.00	Increase in outdoor advertising fees	5,438.66
Equipment depreciation and sales	1,721,167.28	Franchise tax—toll ferries	600.00	Federal aid secondary apportionment transferred to county highway budget	4,617,248.00
					\$10,836,835.31

STATE HIGHWAY OPERATING BUDGET, 1950-1951 FISCAL YEAR
Statement of Budgetary Transactions as of June 30, 1952

	From 1949-50 fiscal year budget	Original budget	Budgetary adjustment	Contributions	Adjusted budget and contributions	Expenditures and obligations	Unexpended balance
Preliminary engineering:							
North.....		\$2,100,000.00	\$1,289,998.73		\$3,389,998.73	\$3,389,998.73	
Contributions—north.....				\$107.76	107.76	107.76	
South.....		3,600,000.00	959,343.06		4,559,343.06	4,559,343.06	
Contributions—south.....				8,393.35	8,393.35	8,393.01	\$10.34
Totals.....		\$5,700,000.00	\$2,249,341.79	\$8,501.11	\$7,957,842.90	\$7,957,832.56	\$10.34
Right of way:							
North.....		\$8,889,200.00	\$3,998,819.79		\$12,888,019.79	\$12,888,019.79	
Contributions—north.....				\$11,000.00	11,000.00		\$11,000.00
South.....		11,895,000.00	8,206,540.76		20,101,540.76	20,101,540.76	
Contributions—south.....				29,296.46	29,296.46	29,296.46	
Totals.....		\$20,784,200.00	\$12,205,360.55	\$40,296.46	\$33,029,857.01	\$33,018,857.01	\$11,000.00
Construction engineering:							
North.....		\$3,000,000.00	\$—145,811.35		\$2,854,188.65	\$2,854,188.65	
Contributions—north.....				\$45,000.00	45,000.00	42,889.88	\$2,110.12
South.....		3,300,000.00	—114,670.23		3,185,329.77	3,185,329.77	
Contributions—south.....				173,156.89	173,156.89	173,156.89	
Totals.....		\$6,300,000.00	\$—260,481.58	\$218,156.89	\$6,257,675.31	\$6,255,565.19	\$2,110.12
Construction projects:							
North.....		\$26,086,000.00	\$3,617,087.50		\$29,703,087.50	\$29,703,087.50	
Contributions—north.....				\$1,718,763.93	1,718,763.93	1,487,507.55	\$231,256.38
South.....		30,816,000.00	9,150,290.32		39,966,290.32	39,966,257.44	\$32.88
Contributions—south.....				2,866,661.74	2,866,661.74	2,865,595.06	\$1,066.68
Totals.....		\$56,902,000.00	\$12,767,377.82	\$4,585,425.67	\$74,254,803.49	\$74,022,447.55	\$232,355.94
Minor improvements and betterments:							
North.....		\$750,000.00	\$54,434.25		\$804,434.25	\$804,434.25	
Contributions—north.....				\$7,757.02	7,757.02	7,688.90	\$68.12
South.....		750,000.00	—224,917.38		525,082.62	525,082.62	
Contributions—south.....				5,348.01	5,348.01	5,348.01	
Totals.....		\$1,500,000.00	\$—170,483.13	\$13,105.03	\$1,342,621.90	\$1,342,553.78	\$68.12

STATE HIGHWAY OPERATING BUDGET, 1949-1950 FISCAL YEAR
Statement of Budgetary Transactions as of June 30, 1952

	From 1948-49 fiscal year budget	Original budget	Budgetary adjustments	Contributions	Adjusted budget and contributions	Expenditures and contract obligations	Unexpended balances
Preliminary engineering:							
North-----		\$2,100,000.00	\$353,207.15		\$2,453,207.15	\$2,453,207.15	
Contributions--north-----				\$32,798.32	32,798.32	31,123.06	
South-----		2,400,000.00	1,103,340.76		3,503,340.76	3,503,340.76	\$1,675.26
Contributions--south-----				89,847.39	89,847.39	89,847.39	
Totals-----		\$4,500,000.00	\$1,456,547.91	\$122,645.71	\$6,079,193.62	\$6,077,518.36	\$1,675.26
Right of way:							
North-----		\$5,879,500.00	\$3,182,296.60		\$9,061,796.60	\$9,061,796.60	
Contributions--north-----				\$270,000.00	270,000.00	266,812.78	
South-----		11,822,000.00	—687,393.87		11,134,606.13	11,134,606.13	\$3,187.22
Contributions--south-----				189,940.73	189,940.73	189,940.73	
Totals-----		\$17,701,500.00	\$2,494,902.73	\$459,940.73	\$20,656,343.46	\$20,653,156.24	\$3,187.22
Construction engineering:							
North-----		\$2,600,000.00	\$275,285.99		\$2,875,285.99	\$2,875,285.99	
South-----		2,600,000.00	92,954.14		2,692,954.14	2,692,954.14	
Contributions--south-----				\$42,820.00	42,820.00	42,820.00	
Totals-----		\$5,200,000.00	\$368,240.13	\$42,820.00	\$5,611,060.13	\$5,611,060.13	
Construction projects:							
North-----		\$31,319,000.00	\$—1,443,842.66		\$29,875,157.34	\$29,875,157.34	
Contributions--north-----				\$75,167.96	75,167.96	68,576.90	\$8,591.06
South-----		34,684,000.00	—684,483.50		33,999,516.50	33,999,516.50	
Contributions--south-----				474,779.03	474,779.03	458,472.15	\$16,306.88
Totals-----		\$66,003,000.00	\$—2,128,326.16	\$549,946.99	\$64,424,620.83	\$64,401,722.89	\$22,897.94
Minor improvements and betterments:							
North-----		\$425,000.00	\$234,717.42		\$659,717.42	\$659,717.42	
Contributions--north-----				\$62,494.10	62,494.10	62,494.10	
South-----		725,000.00	—131,537.69		593,462.31	593,462.31	
Contributions--south-----				72,035.46	72,035.46	72,035.46	
Totals-----		\$1,150,000.00	\$103,179.73	\$134,529.56	\$1,387,709.29	\$1,387,709.29	

DIVISION OF HIGHWAYS

235

Cities 14 cent State highways:

North-----	\$3,367,963.80				\$3,367,963.80	\$1,196,771.98	\$2,171,191.82
South-----	1,632,989.59				1,632,989.59	1,125,659.97	507,329.62
Totals-----	\$5,000,953.39				\$5,000,953.39	\$2,322,431.95	\$2,678,521.44
Joint highway districts:							
North-----		\$105,103.66				\$105,103.66	
Contingency reserves:							
North-----	\$4,554,877.74		\$418,297.74		\$6,651,980.00		\$6,651,980.00
South-----	8,388,861.92		2,970,806.18		13,931,708.10		13,931,708.10
Totals-----	\$12,943,739.66		\$2,552,508.44		\$20,583,748.10		\$20,583,748.10
Summary:							
North-----	\$7,922,841.54		\$2,288,470.42		\$55,490,672.34		\$8,834,625.36
South-----	10,021,851.51		2,663,686.02		68,358,060.14		14,455,404.60
Totals-----	\$17,944,693.05		\$4,952,156.44		\$123,848,732.48		\$23,290,029.96
City streets-----		\$18,400,000.00		\$-230,900.05		\$16,966,794.99	\$5,534,134.44
General maintenance-----		8,312,000.00		384,844.61		8,696,844.61	
Major slides-----		1,300,000.00		7,249.80		1,307,249.80	
Replacement and improved service-----		6,188,000.00		23,549.48		6,211,549.48	
Maintenance in cities-----		3,200,000.00		-323,694.06		2,876,305.94	
Buildings and plants-----		2,000,000.00		-961,786.81		1,038,213.19	
Highway planning-----		1,000,000.00		-184,205.20		840,051.25	
Construction and automotive equipment-----		2,000,000.00		-39,502.06		1,960,497.94	
Nonrental equipment-----				392,007.53		392,007.53	
Administration-----		4,500,000.00		-209,729.51		4,290,270.49	
Work for other state agencies-----				611,082.62		611,082.62	
Supervision of outdoor advertising-----		60,000.00		4,588.27		77,579.87	
Federal aid secondary reserve-----		4,595,138.00		-4,595,138.00			
Reserve for legislative appropriations-----				893,049.00		893,049.00	
Totals-----	\$22,800,961.24	\$151,197,138.00	\$723,572.06	\$1,334,139.44	\$176,055,810.74	\$145,961,614.16	\$30,094,196.58

*Less contributions held pending determination or ultimate disposition thereof.

Transferred to 1950-1951 fiscal year budget-----						27,760.42	
* Increases in highway users tax apportionments-----	\$2,329,122.17						\$30,066,436.16
Increases in federal aid apportionment-----	105.00						4,588.27
Service agreements-work for other state agencies-----	611,082.62						600.00
Sale of Topock Bridge-----	18,739.50						
Equipment depreciation and sales-----	1,681,093.84						-4,020,746.00
Recoveries-U. S. war damage claims-----	98,986.66						\$723,572.06

STATE HIGHWAY OPERATING BUDGET, 1948-1949 FISCAL YEAR
Final Statement of Budgetary Transactions as of June 30, 1952

	From 1947-1948 fiscal year budget	Original budget 1948-1949 fiscal year	Budgetary adjustments	Contributions	Adjusted budget and contributions	Expenditures and contract obligations	Unexpended balance to 1949-1950 F.Y. budget
Preliminary engineering:							
North.....		\$2,250,000.00	\$—150,887.36		\$2,099,112.64	\$2,099,112.64	
Contributions—north.....				\$52,343.89	52,343.89	52,343.89	
South.....		1,975,000.00	1,170,390.56		3,145,390.56	3,145,390.56	
Contributions—south.....				49,934.18	49,934.18	49,934.18	
Totals.....		\$4,225,000.00	\$1,019,503.20	\$102,278.07	\$5,346,781.27	\$5,346,781.27	
Right of way:							
North.....		\$4,900,000.00	\$5,200,659.85		\$10,100,659.85	\$10,100,659.85	
Contributions—north.....				\$4,755.49	4,755.49	4,755.49	
South.....		13,382,000.00	2,360,647.38		15,742,647.38	15,742,647.38	
Contributions—south.....				354,876.63	354,876.63	354,876.63	
Totals.....		\$18,282,000.00	\$7,561,307.23	\$359,632.12	\$26,202,939.35	\$26,202,939.35	
Construction engineering:							
North.....		\$2,000,000.00	\$739,286.97		\$2,739,286.97	\$2,739,286.97	
Contributions—north.....				\$35,693.83	35,693.83	35,693.83	
South.....		2,000,000.00	958,104.58		2,958,104.58	2,958,104.58	
Contributions—south.....				61,283.10	61,283.10	61,283.10	
Totals.....		\$4,000,000.00	\$1,697,391.55	\$96,976.93	\$5,794,368.48	\$5,794,368.48	
Construction projects:							
North.....		\$25,954,500.00	\$—406,758.20		\$25,547,741.80	\$25,547,741.80	
Contributions—north.....				\$338,421.70	338,421.70	338,421.70	
South.....		25,341,500.00	266,061.29		25,607,561.29	25,607,561.29	
Contributions—south.....				1,422,870.54	1,422,870.54	1,422,870.54	
Totals.....		\$51,296,000.00	\$—140,696.91	\$1,761,292.24	\$52,916,595.33	\$52,916,595.33	
Minor improvements and betterments:							
North.....		\$650,000.00	\$—126,452.57		\$523,547.43	\$523,547.43	
Contributions—north.....				\$34,650.84	34,650.84	34,650.84	
South.....		1,000,000.00	—471,797.06		528,202.94	528,202.94	
Contributions—south.....				92,647.32	92,647.32	92,647.32	
Totals.....		\$1,650,000.00	\$—598,249.63	\$127,298.16	\$1,179,048.53	\$1,179,048.53	

COUNTY HIGHWAY BUDGET—CONTINUOUS
STATEMENT OF BUDGETARY TRANSACTIONS AS OF JUNE 30, 1952
Apportionments to Counties of Federal Aid Secondary Funds
Under Federal Highway Aid Acts of 1948 and 1950

County	State and federal funds			Contributions		
	Apportionment	Work orders	Unencumbered balance	Amount budgeted	Work orders	Unencumbered balance
Alameda-----	\$213,142.00	\$89,000.00	\$124,142.00	\$92,916.47	\$91,824.11	\$1,092.36
Alpine-----	86,224.00	63,354.00	22,870.00	62,654.43	62,654.43	
Amador-----	86,224.00	86,224.00		200.00	124.92	75.08
Butte-----	295,843.00	211,663.00	84,180.00	307,540.69	290,574.62	16,966.07
Calaveras-----	106,270.00	48,554.00	57,716.00	54,146.00	54,146.00	
Colusa-----	116,024.00	81,308.00	34,716.00	101,062.51	87,198.24	13,864.27
Contra Costa-----	305,410.00	117,120.00	188,290.00	94,873.88	78,871.54	16,002.34
Del Norte-----	86,224.00		86,224.00			
El Dorado-----	152,250.00	123,886.00	28,364.00	88,200.00	86,864.00	1,336.00
Fresno-----	907,461.00	477,981.00	429,480.00	251,234.47	249,046.50	2,187.97
Glenn-----	140,298.00	103,098.00	37,200.00	108,818.23	105,746.39	3,071.84
Humboldt-----	335,183.00	53,610.00	281,573.00	53,347.17	50,570.68	2,776.49
Imperial-----	359,682.00		359,682.00			
Inyo-----	428,782.00	171,347.00	257,435.00	139,624.76	118,848.10	20,776.66
Kern-----	761,549.00	582,352.53	179,196.47	612,936.65	594,472.04	18,464.61
Kings-----	209,702.00	94,169.00	115,533.00	49,187.15	45,980.15	3,207.00
Lake-----	120,359.00	120,359.00		5,216.63	4,642.78	573.85
Lassen-----	248,632.00	153,181.00	95,451.00	100,000.00	91,362.18	8,637.82
Los Angeles-----	1,301,997.00	809,317.00	492,680.00	679,130.73	653,164.91	25,965.82
Madera-----	217,673.00	97,888.00	119,785.00	86,633.02	86,146.52	486.50
Marin-----	136,900.00	65,000.00	71,900.00	45,225.00	45,225.00	
Mariposa-----	108,508.00		108,508.00			
Mendocino-----	283,646.00	272,300.00	11,346.00	237,598.12	234,533.58	3,064.54
Merced-----	310,704.00	149,534.00	161,170.00	105,233.50	105,233.50	1,000.00
Modoc-----	216,035.00	199,200.00	16,835.00	176,400.00	156,666.53	19,733.47
Mono-----	153,628.00	88,508.29	65,119.71	3,948.82	3,948.82	
Monterey-----	371,174.00	167,075.00	204,099.00	41,219.10	83,728.61	7,490.49
Napa-----	165,163.00	62,328.00	102,835.00	94,700.07	36,571.19	8,128.88
Nevada-----	109,033.00	10,355.00	98,678.00	12,800.00	1,700.00	11,100.00
Orange-----	352,930.00	154,313.00	198,617.00	124,176.01	122,576.01	1,600.00

Placer.....	192,739.00	82,831.00	109,908.00	55,406.91	55,406.91	548.86
Plumas.....	173,945.00	110,008.00	63,937.00	105,163.76	104,614.90	548.86
Riverside.....	661,762.00	336,975.00	324,787.00	194,308.17	173,888.26	20,419.91
Sacramento.....	399,947.00	394,971.00	4,976.00	407,335.89	406,339.81	996.08
San Benito.....	126,443.00	73,390.13	53,052.87			
San Bernardino.....	1,196,635.00	508,336.00	688,299.00	358,665.96	355,120.24	3,545.72
San Diego.....	572,281.00	234,006.00	338,275.00	337,563.04	315,403.85	22,159.19
San Joaquin.....	397,981.00	311,639.00	86,342.00	226,350.00	200,027.15	26,322.85
San Luis Obispo.....	277,925.00	152,732.00	125,193.00	117,385.56	117,289.66	95.90
San Mateo.....	131,588.00	131,588.00		159,338.69	147,912.83	11,425.86
Santa Barbara.....	248,112.00	162,788.00	85,324.00			
Santa Clara.....	403,719.00	250,214.45	153,504.55	335,302.60	335,302.60	
Santa Cruz.....	145,858.00	97,528.00	48,330.00	74,751.18	74,751.18	
Shasta.....	288,428.00	131,196.00	157,232.00	158,504.00	156,154.78	2,349.22
Sierra.....	86,224.00	49,241.00	36,983.00	59,209.00	42,659.00	16,550.00
Siskiyou.....	390,344.00		399,344.00	453.45	453.45	
Solano.....	158,868.00	106,748.00	52,120.00	78,111.72	78,111.72	
Sonoma.....	435,164.00	197,771.00	237,393.00	202,281.14	133,769.91	68,511.23
Stanislaus.....	381,089.00	245,000.00	136,089.00	172,003.42	152,964.45	19,038.97
Sutter.....	131,757.00	58,468.00	73,289.00	56,824.12	56,824.12	
Tehama.....	203,608.00	94,260.00	109,348.00	75,928.35	75,928.35	
Trinity.....	183,227.00		183,227.00			
Tulare.....	670,227.00	490,518.00	179,709.00	314,128.99	313,932.17	196.82
Tuolumne.....	151,938.00	67,351.00	84,587.00			
Ventura.....	292,863.00	192,289.00	100,574.00	132,399.35	127,519.83	4,879.52
Yolo.....	148,598.00	64,200.00	84,398.00	60,800.00	60,088.41	711.59
Yuba.....	97,684.00	68,300.00	29,384.00	59,500.00	57,380.00	2,120.00
County apportionments.....	*\$17,244,604.00	\$9,265,373.40	*\$7,979,230.60	\$7,471,738.71	\$7,084,264.93	\$387,473.78

* Includes federal aid apportionment for 1952-1953 Fiscal Year totaling \$4,579,171.00.

COUNTY HIGHWAY BUDGET—PRIOR
STATEMENT OF BUDGETARY TRANSACTIONS AS OF JUNE 30, 1952
Apportionment to Counties of Federal Aid Secondary Funds Under Federal Aid
Act of 1944 and State Funds Under County Highway Aid Act,
Chapters 938 and 952, Statutes of 1945

County	State and federal funds			Contributions		
	Apportionment	Work orders	Unencumbered balance	Amount budgeted	Work orders	Unencumbered balance
Alameda-----	\$321,777.00	\$321,777.00	-----	\$661.16	\$661.16	-----
Alpine-----	127,446.00	123,591.31	-----	35,276.00	34,753.51	\$522.49
Amador-----	127,446.00	127,446.00	\$3,854.69	97,417.52	97,417.52	-----
Butte-----	420,150.00	420,150.00	-----	447,566.83	446,464.21	1,102.62
Calaveras-----	153,782.00	153,782.00	-----	43,231.17	43,231.17	-----
Colusa-----	174,538.00	174,538.00	-----	56,032.65	56,032.65	-----
Contra Costa-----	371,242.00	371,242.00	-----	107,696.53	107,696.53	-----
Del Norte-----	127,446.00	127,446.00	-----	40,599.74	40,599.74	-----
El Dorado-----	220,629.00	220,629.00	-----	42,779.37	42,779.37	-----
Fresno-----	1,304,780.00	1,295,015.46	9,764.54	73,702.03	70,349.47	3,352.56
Glenn-----	207,446.00	207,446.00	-----	156,898.44	156,898.44	-----
Humboldt-----	473,566.00	473,566.00	-----	158,407.69	158,407.69	-----
Imperial-----	536,729.00	526,886.79	-----	537.13	537.13	-----
Inyo-----	631,729.00	631,729.00	9,842.21	2,000.00	2,000.00	-----
Kern-----	1,142,313.00	1,141,856.97	-----	149,493.09	149,374.47	118.62
Kings-----	305,535.00	305,485.65	49.35	4,663.80	1,908.26	2,755.54
Lake-----	170,905.00	170,905.00	-----	3,488.33	3,480.12	28.21
Lassen-----	379,042.00	379,042.00	-----	103,300.08	103,300.08	-----
Los Angeles-----	2,610,683.00	2,597,284.69	-----	-----	-----	-----
Madera-----	310,021.00	310,021.00	13,398.31	62,633.25	62,633.25	-----
Marin-----	232,079.00	232,079.00	-----	1,793.03	1,793.03	-----
Mariposa-----	161,722.00	159,121.04	-----	1,424.60	1,424.60	-----
Mendocino-----	404,430.00	404,430.00	2,600.96	131,628.35	131,628.35	-----
Merced-----	437,164.00	437,164.00	-----	6,474.04	6,474.04	-----
Modoc-----	323,749.00	323,749.00	-----	136,731.74	134,625.11	2,106.63
Mono-----	227,618.00	227,555.52	62.48	3,227.14	3,224.09	3.05
Monterey-----	513,305.00	513,305.00	-----	219,094.76	219,094.76	-----
Napa-----	221,482.00	221,482.00	-----	18,542.44	18,542.44	-----
Nevada-----	159,645.00	159,645.00	-----	3,684.95	3,684.95	-----
Orange-----	488,730.00	487,730.00	1,000.00	-----	-----	-----

Placer.....	262,339.00			9,896.10	9,896.10
Plumas.....	253,393.00			233,934.09	233,934.09
Riverside.....	937,060.00	8,287.53		123,487.69	123,487.69
Sacramento.....	569,976.00			1,931.47	1,931.47
San Benito.....	182,901.00			2,530.72	2,530.72
San Bernardino.....	1,708,114.00			4,362.15	4,362.15
San Diego.....	741,124.00			281,446.34	265,655.78
San Joaquin.....	597,435.00	684.67		11,211.49	11,211.49
San Luis Obispo.....	401,382.00			25,345.96	25,345.96
San Mateo.....	230,138.00			241,471.96	241,471.96
Santa Barbara.....	344,544.00				
Santa Clara.....	585,507.00			40,341.96	40,341.96
Santa Cruz.....	207,674.00	53.04		2,709.04	2,709.04
Shasta.....	415,501.00			57,534.60	57,534.60
Sierra.....	127,446.00			1,988.66	1,988.66
Siskiyou.....	599,980.00			143,551.58	143,551.58
Solano.....	252,563.00			3,400.33	3,400.33
Sonoma.....	594,698.00	8,199.38		15,071.41	15,071.41
Stanislaus.....	513,457.00			4,563.37	4,563.37
Sutter.....	185,165.00			229,311.27	229,311.27
Tehama.....	298,520.00			214,346.65	214,346.65
Trinity.....	268,597.00			36,696.69	36,696.69
Tulare.....	928,002.00			463,054.58	463,054.58
Tuolumne.....	221,364.00	8,414.92		1,017.44	1,017.44
Yentura.....	401,086.00				
Yolo.....	225,072.00			84,718.96	84,718.96
Yuba.....	149,112.00			155,429.25	155,429.25
County apportionments.....	\$25,489,279.00		\$66,668.11	\$4,498,339.62	\$25,780.28
Grade crossing protection.....	265,000.00	509.36			
Grade crossing projects.....	184,047.00			12,436.96	
	\$25,938,326.00	\$67,177.47		\$4,510,776.58	\$25,780.28

ACCESS HIGHWAYS BUDGET

Statement of Budgetary Transactions as of June 30, 1952

	Budget	Expenditures authorized work orders	Unencumbered balance available
Construction of highways			
North-----	\$6,719,752.68	\$6,714,891.44	\$4,861.24
Contributions—north-----	292.81	292.81	-----
South-----	7,069,073.74	7,033,762.14	35,311.60
Off state system—north-----	7,752,734.51	7,759,734.51	—7,000.00
Contributions—off state system—south-----	23,749.46	23,749.46	-----
Off state system—south-----	13,642,098.61	13,164,664.99	477,433.62
Contributions—off state system—south-----	307,861.88	307,861.88	-----
Totals-----	\$35,515,563.69	\$35,004,957.23	\$510,606.46

GRADE SEPARATIONS OPERATING BUDGET

Final Statement of Budgetary Transactions as of June 30, 1952

	Transfers from 97-98 F. Y.	Budgetary adjustments and contributions	Adjusted budget	Expenditures authorized work orders	Unencumbered balance available
Construction					
North-----	\$1,299,000.00	\$—287,658.20	\$1,011,341.80	\$1,011,341.80	-----
South-----		12,956.89	12,956.89	12,956.89	-----
Off state system-----	335,107.24	307,302.82	642,410.06	642,410.06	-----
Off state system— contribution-----		150,000.00	150,000.00	150,000.00	-----
Grade crossing pro- tection-----	120,000.00	—10,700.72	109,299.28	109,299.28	-----
Contingency reserve-----	21,900.79	—21,900.79	-----	-----	-----
Totals-----	\$1,776,008.03	\$150,000.00	\$1,926,008.03	\$1,926,008.03	-----

APPENDIX B

APPORTIONMENT OF MOTOR VEHICLE FEES
AND FUEL TAXES

- (a) Yearly Registration of Motor Vehicles in California
 - (b) County Apportionment of Funds Derived From Motor Vehicle Fees and Fuel Taxes, January 1, 1914, to June 30, 1952
 - (c) Apportionment of Funds Derived From Motor Vehicle Fees and Fuel Taxes, October 1, 1923, to June 30, 1952
-
-

STATEMENT OF REGISTRATION OF MOTOR VEHICLES IN THE STATE OF CALIFORNIA
FROM RECORDS OF THE DEPARTMENT OF MOTOR VEHICLES

	Fee paid registrations				Exempt registrations	Total registrations	Yearly increase	Percent increase over previous year
	Autos	Trucks	Trailers	Motorcycles				
3/22/05- 6/30/08	6,428					6,428	10,587	164.70
7/ 1/05- 6/30/08	17,015					17,015	19,131	112.44
7/ 1/08- 6/30/10	36,146					36,146	40,523	112.11
7/ 1/10- 6/30/12	76,669					76,669	45,775	59.70
7/ 1/12-12/31/13	122,444					122,444	25,781	21.06
1914	123,516			24,709		148,225	42,971	28.39
1915	164,795			26,401		191,196	72,338	37.78
1916	232,440			30,994		263,434	73,899	28.05
1917	306,916			30,417		337,333	54,114	16.04
1918	364,800		674	25,973		391,447	113,733	29.06
1919	477,450		1,658	26,072		505,180	604,187	19.60
1920	532,934	41,689	2,644	20,564	9,000	604,187	99,007	18.09
1921	645,522	35,092	3,421	17,729	11,721	713,485	109,298	25.74
1922	822,394	39,413	4,861	16,301	14,163	897,132	183,647	26.79
1923	1,056,756	43,527	5,808	14,694	16,660	1,137,445	240,313	20.29
1924	1,125,201	193,871	19,033	12,324	17,776	1,368,205	230,760	9.50
1925	1,224,831	214,571	25,453	10,997	22,280	1,498,132	129,927	11.09
1926	1,383,097	216,149	30,759	30,759	24,027	1,664,321	166,189	5.92
1927	1,479,411	213,784	34,126	9,444	26,108	1,762,873	98,552	6.47
1928	1,582,477	217,413	37,073	9,449	30,520	1,876,932	114,059	9.87
1929	1,885,308	89,033	42,899	9,628	35,275	2,082,143	185,211	8.61
1930	1,941,969	99,387	48,532	9,405	37,337	2,136,630	74,487	0.41
1931	1,938,068	105,213	55,024	8,970	38,199	2,145,474	8,844	-3.04
1932	1,865,333	106,283	61,870	8,338	38,433	2,080,257	-65,217	-4.832
1933	1,850,608	108,189	69,987	8,134	38,507	2,075,425	11,059	2.17
1934	1,876,192	116,924	79,474	8,294	39,569	2,120,453	45,028	7.55
1935	2,015,018	135,722	95,227	8,861	25,657	2,280,485	160,032	8.04
1936	2,178,038	148,991	112,080	9,816	28,638	2,477,563	197,078	7.25
1937	2,319,341	164,132	132,927	11,240	29,593	2,637,233	179,670	5.92
1938	2,339,208	170,483	142,257	11,785	30,732	2,694,465	157,366	4.20
1939	2,422,322	182,825	155,304	13,247	33,875	2,807,573	113,108	

1940	2,573,264	198,895	167,917	15,876	34,310	2,990,262	182,689	6.51
1941	2,740,101	221,146	184,096	18,051	35,305	3,198,699	208,437	6.97
1942	2,617,833	216,955	187,431	19,913	38,292	3,080,444	—118,255	—3.70
1943	2,533,436	215,465	176,257	19,414	41,224	2,985,796	—94,648	—3.07
1944	2,553,362	225,881	191,672	22,309	43,406	3,036,630	50,834	1.70
1945	2,604,789	248,388	238,490	27,173	44,536	3,163,376	126,746	4.17
1946	2,801,076	296,806	307,816	36,353	47,773	3,489,824	326,448	10.32
1947	3,113,329	363,225	349,743	53,234	54,564	3,934,095	444,271	12.73
1948	3,350,078	403,702	361,230	60,857	57,722	4,233,589	299,494	7.61
1949	3,671,466	429,725	355,575	57,475	65,254	4,579,495	345,906	8.17
1950	4,076,484	481,809	363,055	54,948	67,072	5,043,368	463,873	10.13
1951	4,320,124	541,394	389,633	52,373	63,990	5,367,514	324,146	6.43
1952 to June 30	4,218,010	536,296	360,019	43,538	65,710	5,223,573		

NOTE: Prior to 1920 auto and truck registration was not segregated.

— Indicates decrease.

COUNTY APPORTIONMENTS OF FUNDS DERIVED FROM MOTOR VEHICLE FEES AND FUEL TAXES

County	County apportionment of motor vehicle fees, Jan. 1, 1914, to Dec. 31, 1947	County apportionment of motor vehicle fuel tax, Oct. 1, 1923, to June 30, 1947	Subtotal of apportionments prior to operation of the Collier-Burns Act	County apportionment of funds pursuant to Collier-Burns Highway Act of 1947				Total apportionment Jan. 1, 1914, to June 30, 1952
				July 1, 1947, to Dec. 31, 1948	1949	1950	1951	
Alameda-----	\$37,889,019.48	\$21,003,804.11	\$28,892,823.59	\$2,588,610.43	\$2,252,228.77	\$2,353,569.02	\$2,558,632.78	\$39,904,025.78
Alpine-----	4,813.47	496,172.18	500,985.65	74,781.24	59,708.20	60,547.65	64,284.64	792,844.04
Amador-----	141,383.11	785,858.73	927,241.84	187,884.31	148,162.51	150,859.21	158,296.42	1,651,109.66
Butte-----	855,623.82	2,500,072.44	3,355,696.26	653,850.54	526,106.39	543,250.51	566,630.40	5,927,212.79
Calaveras-----	137,787.20	783,901.09	921,688.29	294,812.83	231,303.33	235,448.68	247,936.18	2,035,528.75
Colusa-----	268,037.71	999,340.32	1,267,378.03	338,169.98	266,626.52	275,118.73	284,779.69	141,137.05
Contra Costa-----	\$1,682,284.96	\$5,032,328.32	6,714,613.28	939,964.83	845,998.33	913,010.69	1,030,198.84	10,964,809.43
Del Norte-----	84,990.28	668,818.46	753,808.74	103,481.97	87,303.08	91,681.33	101,085.70	1,188,990.30
El Dorado-----	191,583.41	924,170.57	1,115,753.98	353,848.53	286,563.19	293,017.52	307,675.22	2,511,136.78
Fresno-----	3,702,179.76	8,957,095.06	12,659,274.82	1,829,915.82	1,509,793.36	1,575,802.47	1,661,518.66	20,068,479.68
Glenn-----	307,550.17	\$1,106,746.94	1,414,297.11	399,277.31	317,224.76	326,392.32	338,178.94	169,206.87
Humboldt-----	819,005.20	2,434,113.52	3,253,118.72	532,829.55	433,313.18	449,958.00	475,845.98	5,384,254.93
Imperial-----	1,126,820.51	\$3,139,885.95	4,266,706.46	883,908.67	749,309.46	799,873.70	851,494.21	7,976,769.54
Inyo-----	165,264.51	808,837.49	974,102.00	452,644.40	352,099.36	364,390.90	384,175.69	192,551.59
Kern-----	\$2,339,878.22	\$6,262,247.79	8,602,126.01	1,433,522.57	1,166,424.56	1,206,611.07	1,309,560.24	14,378,000.99
Kings-----	662,120.57	1,999,351.32	2,661,471.89	531,150.17	423,082.73	434,267.97	453,894.94	2,267,688.01
Lake-----	775,418.34	869,516.00	1,044,934.34	254,919.68	204,808.41	211,483.63	219,084.24	108,881.36
Lassen-----	229,743.89	998,979.92	1,228,723.81	511,759.03	406,543.91	418,848.89	449,889.81	3,244,205.64
Los Angeles-----	\$44,785,740.06	\$120,557,784.91	165,343,524.97	16,510,494.27	13,855,947.05	14,806,320.31	16,315,989.38	234,916,874.40
Madera-----	394,016.66	1,417,226.81	1,811,243.47	581,547.26	460,202.75	478,997.42	499,883.69	249,226.45
Marin-----	677,187.51	2,234,401.47	2,911,588.98	332,577.65	289,027.66	313,809.17	340,092.80	171,221.62
Mariposa-----	75,548.75	661,127.43	736,676.18	231,746.16	189,348.04	195,229.19	204,767.45	102,695.59
Mendocino-----	432,033.04	1,477,474.99	1,909,508.03	468,427.10	378,785.91	393,342.84	412,276.82	206,965.19
Merced-----	807,093.21	2,507,317.66	3,314,410.87	648,903.33	688,870.23	714,630.28	754,082.80	377,431.29
Modoc-----	138,563.51	767,911.66	908,475.17	331,734.19	264,872.54	285,284.89	317,803.62	163,284.40
Mono-----	23,915.20	546,887.71	579,802.91	250,935.36	211,521.34	224,718.20	240,139.02	122,314.98
Monterey-----	1,130,162.04	\$3,508,491.55	4,638,653.59	686,152.52	573,103.68	601,380.53	637,840.60	7,455,772.43
Napa-----	505,579.57	1,675,802.94	2,181,382.51	258,861.84	219,196.44	230,860.85	248,439.40	122,971.46
Nevada-----	228,412.79	1,037,126.96	1,265,539.75	231,201.99	187,655.87	196,854.21	218,359.57	114,411.09
Orange-----	2,734,226.35	\$7,245,547.46	9,979,773.81	990,576.70	836,128.93	898,553.15	988,121.84	14,187,929.81

DIVISION OF HIGHWAYS

247

Placer-----	510,353.73	1,701,558.77	2,211,912.50	381,512.15	308,223.70	318,779.91	348,586.21	179,404.34	3,748,418.81
Plumas-----	143,645.55	807,938.59	951,639.14	277,649.41	220,884.98	225,335.36	259,658.28	138,630.14	2,073,797.31
Riverside-----	1,788,157.86	5,075,637.39	6,863,795.25	1,368,767.87	1,041,891.51	1,083,538.85	1,151,250.00	577,108.43	12,086,351.91
Sacramento-----	2,798,154.25	7,905,219.95	10,703,919.95	1,688,731.27	1,059,334.30	1,059,334.30	1,172,352.22	592,172.55	15,694,143.43
San Benito-----	253,474.18	1,011,193.60	1,264,667.78	209,423.57	168,637.21	173,409.36	181,421.83	90,477.55	2,088,037.30
San Bernardino-----	2,680,208.84	7,427,714.09	10,107,922.93	1,777,763.94	1,476,129.12	1,544,075.96	1,618,651.00	780,891.96	17,305,434.91
San Diego-----	4,594,698.16	12,789,376.18	17,384,074.34	1,959,800.18	1,710,545.03	1,809,569.14	2,013,876.00	1,033,334.30	25,911,198.99
San Francisco-----	3,496,430.50	12,038,038.77	29,334,469.27	2,437,865.64	2,046,071.77	2,143,641.28	2,277,797.70	1,092,152.71	39,331,998.37
San Joaquin-----	2,396,974.84	6,301,931.53	8,698,906.37	938,495.81	793,388.00	847,605.87	929,889.87	461,521.67	12,669,807.59
San Luis Obispo-----	687,380.04	1,213,785.38	2,823,165.42	601,943.80	484,358.83	500,633.08	525,576.25	263,092.77	5,198,770.15
San Mateo-----	1,524,891.92	4,716,024.61	6,240,916.53	791,961.25	729,433.40	805,801.69	916,620.49	465,870.50	9,950,603.86
Santa Barbara-----	*1,377,382.61	3,882,231.22	5,229,613.83	509,359.65	419,119.10	440,289.09	482,086.39	238,163.93	7,318,631.99
Santa Clara-----	3,220,645.21	8,568,925.90	11,789,571.11	1,173,395.23	1,042,104.10	1,106,792.14	1,233,001.21	622,272.49	16,967,136.28
Santa Cruz-----	848,701.56	2,598,065.57	3,446,767.13	379,875.65	325,151.55	344,044.61	352,956.58	182,148.88	5,030,944.40
Shasta-----	398,125.70	1,436,902.91	1,835,028.61	530,531.84	425,568.14	441,033.69	482,944.65	249,203.24	3,964,310.17
Sierra-----	44,164.23	581,674.89	625,839.12	134,780.07	106,839.61	108,842.33	124,785.99	66,940.46	1,168,027.58
Siskiyou-----	466,805.43	1,595,009.49	2,061,814.92	648,204.34	544,496.77	550,484.30	586,612.44	301,973.79	4,693,586.56
Solano-----	913,226.39	2,765,443.73	3,678,070.12	450,422.54	380,948.40	406,033.36	432,820.79	226,766.65	5,595,661.86
Sonoma-----	1,495,669.66	4,069,015.23	5,564,684.89	712,874.91	588,684.14	611,180.85	644,281.10	322,069.99	8,443,775.88
Stanislaus-----	1,574,418.86	4,232,823.42	5,807,242.28	937,614.09	764,713.33	791,636.37	830,462.16	414,130.10	9,545,798.33
Sutter-----	351,821.48	1,292,193.00	1,644,014.48	404,367.93	321,116.65	329,709.24	342,362.09	170,063.45	3,211,633.84
Tehama-----	313,208.39	1,160,589.83	1,473,798.22	445,115.69	349,983.45	359,315.63	374,077.00	186,162.81	3,188,462.80
Trinity-----	45,458.77	159,521.43	642,980.20	300,798.19	237,616.18	243,915.80	255,922.75	129,829.04	1,811,062.16
Tulare-----	1,936,965.44	5,103,374.58	7,040,340.02	1,479,132.45	1,175,450.29	1,224,983.16	1,281,453.61	638,969.12	12,840,328.65
Tuolumne-----	185,339.59	187,937.75	1,064,687.34	240,785.95	189,452.44	193,916.68	206,108.74	104,033.00	1,998,984.15
Ventura-----	1,135,886.23	3,372,308.22	4,508,194.45	505,509.97	415,452.22	451,046.59	482,519.49	239,028.31	6,601,749.03
Yolo-----	577,839.93	1,802,873.82	2,380,713.75	434,023.72	344,768.37	357,772.34	373,196.85	185,804.25	4,076,279.28
Yuba-----	323,925.88	1,199,991.69	1,523,917.57	263,653.74	214,727.65	222,892.35	240,719.31	123,160.97	2,589,071.59
Totals-----	*\$113,801,938.53	*\$319,227,108.30	*\$433,029,046.83	*\$55,550,351.08	*\$46,245,205.49	*\$48,739,926.66	*\$52,782,950.57	*\$26,330,307.96	*\$662,677,788.59

* Deduct the following amounts for reimbursement of the Department of Motor Vehicles for salaries paid highway crossing guards: 1945-1946—Contra Costa \$1,574.84, Kern \$5,233.80, Los Angeles \$111,750.68, Santa Barbara \$2,069.70; 1947—Ala-

meda \$1,618.00, Contra Costa \$1,265.50, Kern \$1,604.00, Los Angeles \$35,735.00, Santa Barbara \$1,959.00.
† Includes repayment of unemployment relief loans to county as provided in Section 23 of Chapter 207, Statutes of 1933 (for tabulation, see First Annual Report).

APPORTIONMENT OF FUNDS DERIVED FROM MOTOR VEHICLE FEES AND FUEL TAXES†

	To counties	To State Highway Maintenance Fund	To State Highway Construction Fund	To State Highway Fund				Total	Total registration	Average per vehicle
				To Division of Highways	¼ cent to cities for state highways	¼ cent to cities for major streets	To city streets			
Oct. 1, 1923-Dec. 31, 1923	\$1,389,257.80	\$1,389,257.80	-----	-----	-----	-----	-----	\$2,778,515.60	1,368,205	\$9.04
Jan. 1, 1924-Dec. 31, 1924	6,182,518.97	6,182,518.96	-----	-----	-----	-----	-----	12,365,037.93	1,498,132	9.60
Jan. 1, 1925-Dec. 31, 1925	7,194,051.54	7,194,051.54	-----	-----	-----	-----	-----	14,388,103.08	1,664,321	9.93
Jan. 1, 1926-Dec. 31, 1926	8,260,360.86	8,260,360.86	-----	-----	-----	-----	-----	16,520,721.72	1,762,873	12.76
Jan. 1, 1927-Dec. 31, 1927	9,349,534.81	9,349,534.81	\$3,788,334.00	-----	-----	-----	-----	22,487,403.63	1,876,932	15.62
Jan. 1, 1928-Dec. 31, 1928	9,839,491.88	9,839,491.80	\$9,637,204.99	-----	-----	-----	-----	29,316,188.77	2,062,143	16.39
Jan. 1, 1929-Dec. 31, 1929	11,319,524.47	11,319,524.47	11,155,181.54	-----	-----	-----	-----	33,794,230.48	2,136,630	16.65
Jan. 1, 1930-Dec. 31, 1930	11,858,452.77	11,858,452.77	10,451,671.51	-----	-----	-----	-----	35,574,633.30	2,145,474	14.61
Jan. 1, 1931-Dec. 31, 1931	10,451,671.52	10,451,671.51	10,451,671.51	-----	-----	-----	-----	31,355,014.56	2,080,257	17.42
Jan. 1, 1932-Dec. 31, 1932	12,079,972.95	12,079,972.95	12,079,972.95	-----	-----	-----	-----	36,239,918.86	2,075,435	16.92
Jan. 1, 1933-Dec. 31, 1933	11,706,298.32	5,519,290.65	5,519,290.65	-----	-----	-----	-----	35,118,894.95	2,120,433	17.12
Jan. 1, 1934-Dec. 31, 1934	12,097,841.61	-----	-----	-----	-----	-----	-----	39,836,218.01	2,280,485	17.47
Jan. 1, 1935-Dec. 31, 1935	13,927,072.67	-----	-----	-----	-----	-----	-----	42,869,584.62	2,657,233	17.31
Jan. 1, 1936-Dec. 31, 1936	14,289,861.54	-----	-----	-----	-----	-----	-----	46,357,674.70	2,694,465	17.53
Jan. 1, 1937-Dec. 31, 1937	15,452,558.23	-----	-----	-----	-----	-----	-----	49,216,810.52	2,900,262	17.11
Jan. 1, 1938-Dec. 31, 1938	15,547,174.80	-----	-----	-----	-----	-----	-----	56,665,073.78	3,198,699	17.81
Jan. 1, 1939-Dec. 31, 1939	16,405,602.51	-----	-----	-----	-----	-----	-----	52,533,687.22	3,080,444	17.05
Jan. 1, 1940-Dec. 31, 1940	17,057,387.76	-----	-----	-----	-----	-----	-----	41,551,894.42	2,985,796	13.92
Jan. 1, 1941-Dec. 31, 1941	18,080,257.03	-----	-----	-----	-----	-----	-----	49,604,405.05	3,163,276	15.68
Jan. 1, 1942-Dec. 31, 1942	17,511,220.05	-----	-----	-----	-----	-----	-----	68,168,476.50	3,489,824	19.82
Jan. 1, 1943-Dec. 31, 1943	13,854,631.57	-----	-----	-----	-----	-----	-----	130,321,295.26	4,293,589	30.93
Jan. 1, 1944-Dec. 31, 1944	13,850,432.88	-----	-----	-----	-----	-----	-----	108,574,737.12	4,578,485	30.81
Jan. 1, 1945-Dec. 31, 1945	16,354,831.68	-----	-----	-----	-----	-----	-----	174,801,026.63	5,043,308	34.68
Jan. 1, 1946-Dec. 31, 1946	22,822,158.83	-----	-----	-----	-----	-----	-----	205,273,096.73	5,367,514	38.24
Jan. 1, 1947-Dec. 31, 1947	19,030,007.18	-----	-----	-----	-----	-----	-----	118,722,747.31	-----	-----
Jan. 1, 1948-Dec. 31, 1948	43,440,033.15	-----	-----	-----	-----	-----	-----	-----	-----	-----
Jan. 1, 1949-Dec. 31, 1949	46,245,205.49	-----	-----	-----	-----	-----	-----	-----	-----	-----
Jan. 1, 1950-Dec. 31, 1950	48,739,929.66	-----	-----	-----	-----	-----	-----	-----	-----	-----
Jan. 1, 1951-Dec. 31, 1951	52,782,950.57	-----	-----	-----	-----	-----	-----	-----	-----	-----
Jan. 1, 1952-June 30, 1952	26,330,307.96	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total	\$543,990,278.91	\$83,444,128.23	\$64,489,383.43	\$851,765,180.27	\$55,224,978.70	\$54,612,996.58	\$84,822,792.87	\$1,748,349,738.99	-----	-----

4 year average of 2 cents tax, \$10.35; 19 year average of 3 cents tax, 16.67; 5 year average of 4½ cents tax, 31.01.

2-cent tax per gallon from October 1, 1923, to July 28, 1927. Apportioned 1 cent to counties, 1 cent to State Highway Maintenance Fund.

3-cent tax per gallon from July 29, 1927, to June 30, 1933. Apportioned 1 cent to counties, 1 cent to State Highway Maintenance Fund, 1 cent to State Highway Construction Fund.

3-cent tax per gallon from July 1, 1933, to June 30, 1935. Apportioned 1 cent to counties, 1½ cents to State Highway Fund, ½ cent to cities for state highways.

3-cent tax per gallon from July 1, 1935, to June 30, 1947. Apportioned 1 cent to counties, 1½ cents to Division of Highways, ½ cent to cities for state highways, ½ cent to cities for streets of major importance.

4½-cent tax per gallon from July 1, 1947. Fuel tax apportioned 1½ cents to counties, 2½ cents to Division of Highways, ½ cent to city streets.

* Apportionments for the last half of 1947 were made to effect the transition from former acts to operation under the Collier-Burns Act.

† Apportionments beginning with January 1, 1948, were made according to the Collier-Burns Highway Act of 1947.

‡ Apportionments prior to July 1, 1947, were made from fuel taxes only.

\$ Includes \$2,500.00 appropriated for the Code Commission by Chapter 698, Statutes 1935.

APPENDIX C

CONTRACT STATISTICS

(a) Completed Contracts—July 1, 1946, to June 30, 1952

(b) Incomplete Contracts—June 30, 1952

NOTE: For contracts completed prior to July 1, 1946, see Fifteenth Biennial Report

NOTE: * opposite a contract indicates final cost figures not yet available

COMPLETED CONTRACTS—June 30, 1952

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
4T48	Alameda	5	A	Near Greenville	---	11/21/46	Day Labor	Truck Scale	\$12,000	---	\$12,000
4TC25	Alameda	5, 69	B, C, B	Bet. Dublin & Mission San Jose & Bet. Alvarado & San Leandro	7.6	6/ 7/46	A. S. Jones	Repair with C.R.B. & P.M.S.	161,255	\$16,747	178,002
4TC35	Alameda	5	B	On San Miguel Ave.-Parkway	0.4	5/16/47	McGuire & Hester	Storm Drain	22,650	1,697	24,347
4WC29-P	Ala., C.C.	5, 107	B, A	Bet. Hayward & Dublin & Bet. Danville & 3.1 Mi. S.	5.3	6/ 7/47	J. R. Armstrong	P.M.S.	151,774	14,611	166,385
4TC49	Alameda	5	B	At Redwood Road	0.3	4/22/48	J. R. Armstrong	Signals & Channelization	42,681	6,861	49,542
1-4TC105-F	Alameda	5	B	Bet. 1.5 Mi. W. of Livermore & Hopyard Road	5.9	5/31/50	Fredrickson & Watson Const. Co.	Grade, P.C.C. on C.T.S., 3 R.C. Brs. & Lights	717,278	100,000	*817,278
51-4TC23	Alameda	5	B	At San Miguel Ave. in Castro Valley	0.2	12/ 5/50	Gallagher & Burk, Inc.	C.R.B., P.M.S. & Signals	26,087	3,532	29,619
4WC22	Alameda	5, 69	C, A	Bet. Warm Springs & Mission San Jose & Bet. Warm Springs & Centerville	8.3	3/11/46	A. S. Jones	Repair Shoulders & P.M.S.	40,118	8,925	49,043
1-4TC77	Alameda	5	D, B	Bet. Castro Valley Jet. & San Leandro	3.3	4/ 1/49	Lee J. Immel	Resurf. with P.M.S.	247,295	18,820	266,115
1-4TC10	Alameda	5	D	On Foothill Blvd. at 150th Ave.	---	10/11/49	L. H. Leonardi Electric Const. Co.	Signals & Lights	13,197	1,412	14,609
1-4TC86-F	Alameda	5	E, F, B	Bet. Greenville & 1.5 Mi. W. of Livermore	5.8	6/22/49	Harns Bros. and N. M. Ball & Sons	Grade, P.M.S. & Lights	935,472	101,000	*1,036,472
0-4TC72	Alameda	5	F	Bet. 1.5 Mi. E. & 1.7 Mi. W. of Livermore	3.2	10/19/48	Dan Caputo & Ed Keeble	Grade & Conc. U.C. & Bridge	496,807	65,000	*561,807
4T124	Alameda	5	Env, Oak	At San Pablo Ave. Overpass	0.4	11/18/49	Day Labor	P.M.S. Blanket	10,543	---	10,543
4T114	Alameda	5	Hay	Bet. A St. & B St.	---	2/ 3/49	Day Labor	Grade & P.M.S.	10,851	1,502	12,353
4T123	Alameda	5	Hay	Bet. B St. & C St.	---	11/16/49	Day Labor	Improving Shldr.	5,488	986	*6,474
4TC41	Alameda	5	Oak	Bet. Toll Plaza & Distr. Struct.	0.9	6/18/47	Chas. L. Harney, Inc.	Additional Traffic Lanes	144,856	11,609	156,465
4TC43-P	Alameda	5	Oak	At Bay Bridge Toll Plaza	0.6	9/ 8/47	San Francisco Br. Co.	Sand Fill	384,718	17,562	402,280
4TC44-P	Alameda	5	Oak	At Bay Bridge Toll Plaza	0.6	9/12/47	Pomboa Const. Co.	Slope Protection	129,890	13,734	143,624
0-14TC52	Alameda	5	Oak	At Bay Bridge Toll Plaza	---	7/22/48	Stolte Inc. & Duncanson-Harrelson Co.	Toll Facilities	166,277	15,700	*181,977
14TMC2	Alameda	5, 69	Oak	At Distribution Structure	---	8/11/48	Pacific Br. Painting Co.	Waterproof & Paint Bridge	43,559	---	43,559
0-4TC67	Alameda	5	Oak	At Bay Bridge Toll Plaza	0.7	8/25/48	Lee J. Immel	Grade, P.M.S. & Lights	197,053	20,072	217,125
1-4TTC12	Alameda	5	Oak	At MacArthur Blvd., Foothill Blvd., & 73d Ave.	---	1/17/50	L. H. Leonardi Electric Const. Co.	Signals & Lights	13,639	1,737	15,376

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
15T3	Ala. S.F.	5, 68	Oak-SF	See San Francisco County							
15T5	Ala. S.F.	5, 68	Oak-SF	See San Francisco County							
15T7	Ala. S.F.	5, 68	Oak-SF	See San Francisco County							
52-4TC11-P	Alameda	5	SLn	At Intrs. of MacArthur Blvd. & Dutton Ave.		9/13/51	R. Flatland	Signals & Drainage Improvement	\$12,959	\$1,600	*\$14,559
4T42	Alameda	14, 5	Env	In Emeryville		9/20/46	Day Labor	Signals	14,706	591	15,297
0-4TC68	Alameda	69	A, B, SLn	Bet. Centerville & San Leandro	6.7	8/ 3/48	Granite Const. Co.	P.M.S. on C.R.B.	181,339	22,304	203,643
4W37	Alameda	69	B	In San Lorenzo Village		10/29/46	Day Labor	Signals	5,974	371	6,345
1-4TC76	Alameda	69	B	Bet. Alvarado & San Leandro	5.4	4/ 1/49	Clements & Co.	Resurf. with P.M.S. & Shldrs.	193,839	12,324	171,363
4TC23	Ala. C.C.	69, 14	Alb. Reh, ECr, A, Pn, Her, B	Bet. El Cerrito Hill OH. in Albany & Carquinez Bridge	10.5	5/23/46	J. R. Armstrong Cont. Co.	Repair with C.R.B., P.M.S. & Pen. Tr. & Construct Decelerating Lane	58,410	6,822	65,242
1-4TC90-P	Alameda	69	Alb	Across Cerrito Creek		7/ 7/49	J. R. Armstrong	R.C. Culvert & Detours	27,035	6,475	*33,510
51-4TC27-P	Ala. C.C.	69	Ber, Reh	At University Ave., Central Ave. & Carlson Blvd.		1/10/51	Lee J. Immel	Signals & Chnlz.	32,786	4,796	37,582
52-4TC2	Alameda	69	Ber, Alb	Bet. Ashby & El Cerrito OH.	2.4	4/17/51	Lee J. Immel	Grade & P.M.S.	106,054	10,000	*116,054
4T141	Alameda	69	Env, Ber	Bet. Powell St. & University Ave.		11/14/50	Day Labor	Widen (6 Turnouts)	7,512		*7,512
4TMC3	Alameda	69	Oak	Cypress St., Bet. Distr. Struct. & 7th St.		3/11/46	Lee J. Immel	Widen with P.C.C. Resurf. with A.C.	150,410		150,410
14WC8	Alameda	69	Oak	At 5th Ave. Overhead		6/21/46	Duncauson-Harrelson Co. & Stolle, Inc.		1,868,491	84,709	1,953,200
14WC9	Alameda	69	Oak	At Fruitvale Ave.		12/ 9/46	S. J. Ameroso Const. Co.	Std. & Conc. OC.	401,531	33,946	435,477
14WC10-F	Alameda	69	Oak	At 23d Ave.		6/16/47	A. Soda & Son	Substructure of Std. & Conc. OC.	468,475	30,173	498,648
4WC31-F	Alameda	69	Oak	Bet. 1 Mi. N. of S.C.L. of Oakland & 0.3 Mi. S. of High St.	2.3	6/25/47	Johnson-Western Co. & Amer. Pipe & Const. Co.	Std. & Conc. OC.		60,100	1,051,544

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
14WC11-F	Alameda	69	Oak	At 29th Ave. in Oakland	-----	6/27/47	Lew Jones Const. Co.,	Sid. & Conc. OC.	\$158,881	\$13,230	\$169,111
14WC12-F	Alameda	69	Oak	At Fruitvale Ave.	-----	8/13/47	J. H. Pomeroy & Co., Inc.	Superstructure for Steel OC.	653,322	18,228	653,550
14TC31-F	Alameda	69	Oak	At 19th Ave.	-----	10/22/47	Carl N. Swenson, Inc.	Sid. & Conc. OC. & Approaches	403,380	31,019	434,399
4T102	Alameda	69	Oak	At 14th and 23d Aves.	-----	3/17/48	Day Labor	Storm Drains	45,500	-----	45,500
0-4TC48-F	Alameda	69	Oak	Bet. 38th Ave. & Oak St.	2.9	4/1/48	Fredrickson & Watson Const. Co.	Grade & P.C.C. on C.R.B.	1,468,249	171,802	1,640,051
0-14TC37-F	Alameda	69	Oak	Across Elmhurst Cr., Damon Slough, & East Creek Slough.	-----	4/1/48	E. H. Peterson & Son	3 R.C. Bridges	240,545	16,251	256,796
0-14TC33-F	Alameda	69	Oak	Eastshore Freeway, Bet. 50th Ave. & 38th Ave.	0.7	8/3/48	Johnson, Drake, & Piper Inc.	Grade, Pave & 4 Sid. & 1 R.C. Br.	1,534,084	205,000	*1,739,084
1-14TC64-F	Alameda	69	Oak	At High St.	-----	4/1/49	A. Soda & Son	Steel Overhead	701,730	48,000	749,730
0-4TC33-F	Alameda	69	Oak	Bet. S.C.L. & High St.	3.3	5/20/49	Fredrickson & Watson Const. Co.	Grade, P.C.C. & Sid. Structures	1,373,439	125,550	*1,498,989
4T116	Alameda	69, 105	Oak	At Intrs. of 5th & Oak Sts., 6th & Oak Sts., and 7th & Madison Sts.	-----	6/24/49	Day Labor	Signals & Lights	13,681	-----	*13,681
51-4TC21	Alameda	69	Oak	Bet. 38th Ave. & Fallon St.	2.8	11/8/50	Justice-Dunn Co.	Roadside Development	99,036	11,100	*110,136
1-14TC34-F	Alameda	69	SLn, Oak	Across San Leandro Cr. & S.P.R.R. Tracks at S.C.L. of Oakland	-----	1/10/50	C. B. Tuttle Co.	Steel Br. and Overhead	664,072	48,500	*712,572
4T142	Alameda	69	SLn	Bet. Washington Ave. & Clarke St.	-----	11/22/50	Day Labor	Storm Drain	16,999	1,000	*17,999
4T147	Alameda	75	Oak	Bet. MacArthur Blvd. & Broadway Terr.	-----	6/15/51	Day Labor	Widen, Grade & Pave	260,000	-----	260,000
4WC27	Alameda	105	B	On E. 14th St. Bet. Plaza Dr. & 158th Ave.	-----	12/10/46	Wheeler Const. Co.	R.C. Culvert	11,716	2,826	14,542
0-4TTC4	Alameda	105	B	At E. 14th St.	-----	11/19/48	L. H. Leonard Electric Const. Co.	Signals & Lights	42,612	2,878	45,490
1-4TC78	Alameda	105, 5	Hay	Through Hayward	1.8	4/1/49	Lee J. Immel	P.M.S.	83,968	7,540	91,508
14WLC33	Alameda	107	A	Across Alameda Creek	-----	6/22/46	R. G. Clifford & Louis Biasotti & Son	Steel Br. & OC	416,898	40,929	457,757
1-4TC95	Alameda	107	A	At Rosewars UC., 1.5 Mi. E. of Niles	-----	10/25/49	Elmer J. Warner	Grade & P.M.S. on C.R.B.	63,763	8,600	*72,363
1-14TTC3	Alameda	108	A	Across Vallecitos Cr., 9 Mi. SW. of Livermore	-----	3/28/50	Lew Jones Const. Co.	Repair R.C. Br.	4,002	406	4,408
51-4TC33	Alameda	108	Lvnr	At L St.	-----	4/20/51	Howard Electric Co.	Signals	3,192	800	*3,992
52-4TTC21	Alameda	206	Ber	At Folger Ave. UP	-----	10/30/51	C. Norman Peterson	Revise Pumping System	9,422	1,300	*10,722

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
13T1	Alameda	227	Oak	Bet. Rte. 75 & Park Blvd.	2.3	8/28/48	Day Labor	Grade, Pave & Structures.	\$375,000		\$375,000
13T2	Alameda	227	Oak	Bet. Rte. 75 & Park Blvd.	2.3	8/2/49	Day Labor	Grade, Pave & Structures.	300,000		300,000
13T3	Alameda	227	Oak	Bet. Rte. 75 near Lake Temescal & Rte. 5.	2.3	7/24/50	Day Labor	Grade, Pave & Structures.	300,000	\$6,497	306,497
4ANC14	Alameda	Oak	Airport	Bet. Matiland Dr. & Earhart Rd. in Aux. Naval Air Sta.	0.2	7/10/46	Gallagher & Burk.	Repair with P.M.S. & Const. Shldrs.	4,150	804	4,954
4DC10	Ala. C.C.	FAS 801		On Crow Canyon Rd.	1.8	7/ 8/48	Louis Biasotti & Son	Grade & P.C.C. & P.M.S. on C.R.B.	218,599	26,317	244,916
4DC11	Alameda	FAS 1023		On Jarvis Rd. Bet. Dumbarton Rd. & Rte. 69.	3.4	7/29/48	Clements & Co.	P.M.S.	158,928	8,190	167,118
51-DC1	Alameda	FAS 1025		Bet. Alvarado & 3 Mi. Southeasterly	2.8	7/20/50	Clements & Co.	Grade, I.B. & P.M.S. on C.R.B.	155,304	19,000	*174,304
4DC1	Alameda	FAS 1030		On A St. & Redwood Rd. Bet. San Lorenzo Cr. Br. & Proctor Rd.	2.7	7/26/46	Hayward Bldg. Matl. Co.	Grade & P.M.S.	144,486	1,534	146,020
0-4TTC5P	Ala. S.M.	Var	Var	Various Locations.		12/ 3/48	R. O. Ferguson Co.	Signals & Lights	32,678	2,901	35,579
	Alameda			Various Locations.				Minor Contracts & D.L. Projects	72,684		*72,684
10DC7	Alpine	FAS 959		Bet. 7 Mi. E. of Markleville & Mono Co. Line.	5.5	7/ 6/49	Arthur B. Sri. Inc.	Grade, I.B., & Drainage Facilities.	79,022	13,000	*92,022
	Alpine			Various Locations.				Minor Contracts & D.L. Projects	859		*859
01-10TC40	Amador	34	F	Bet. Cooks Sta. & E. of Hanus Sta.	3.6	11/17/48	Westbrook & Pope	Grade & B.S.T.	162,472	10,348	172,820
10WC18P	Amador	34, 65	Jkn, C	Bet. N. of Jackson & E. & S. of Jackson.	2.3	6/ 9/47	Fredrickson Bros.	Grade, P.M.S. & 3 R.C. Bridges	545,152	57,955	603,107
52-14TC8-F	Amador, E.D.	65	A, C	Across Cosumnes Riv., Abt. 5 Mi. N. of Plymouth.	0.4	6/15/51	Thomas Const. Co.	R.C. Br. & Apps.	232,115	20,000	*252,115
14WLC52	Amador, Cal.	65	C, A	See Calaveras County							
10T65	Amador	65	C	Bet. 0.6 Mi. & 1.2 Mi. N. of Mokelumne River.	0.6	4/ 6/48	Day Labor.	P.M.S.	19,940	1,292	21,232
51-10TC1	Amador	65	Ply	Bet. N.C.L. & S.C.L., Plymouth.	0.9	4/ 1/50	P. J. Moore & Son	I.B., I.S.M., & R.M.S.	18,091	3,940	22,031

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
51-14TC27 10DC2	Amador	97	B	Across Dry Creek	0.5	4/18/51	Lefever & Bing	R.C. Br. & Apps.	\$72,089	\$9,000	*\$81,089
	Amador	FAS 951		Bet. 3.7 Mi. Ely. of Pine Grove & N. Fork Mokelumne River	4.7	7/30/47	A. Teichert & Son, Inc.	Grade & B.S.T.	196,725	26,305	223,030
	Amador			Various Locations				Minor Contracts & D.L. Projects	16,394	20	*16,414
0-3TC51P 1-3TC69 3TC24	But. Sut.	3	A, Grd. A, LJO A	See Sutter County							
	But. Sut.	3		See Sutter County							
	Butte	3	B, C, Che	Bet. Oroville Wye & Nelson, Bet. Durham R.R. Xing & Chico & Bet. Big Chico Creek & 6th St. in Chico	11.8	5/16/46	Lester L. Rice	P.M.S. on C.R.B. & Shldra	108,024	7,052	115,076
1-14TC82	Butte	3	B	Across Hamilton Slough & Biggs Extension Canal		11/ 9/49	Huetig, Schromm, & Bennett	R.C. Bridge & Approaches	35,849	9,067	44,916
52-3TC5	Butte	3	B	Bet. Biggs Rd. & Oroville Wye	5.4	6/ 6/51	Rice Bros. Inc.	P.M.S.	171,551	17,500	*189,051
0-3TC49-P	Butte	3, 47	C, Che, D, Che	3 Locations, in and near Chico	15.6	4/ 1/48	McGillivray Const. Co.	Grade & P.M.S.	171,218	7,741	178,959
51-3TC2	Butte	3	D	Bet. Chico & Tehama Co. Line	10.0	4/ 1/50	Minton & Kubon	Widen Rd. & Existing R.C. Structs.	28,532	7,400	*33,932
51-14TC10	But. Teh	3	D, A	Bet. Chico & Los Molinos		6/14/50	O'Connor Bros.	4 R.C. Brs. & Widen 2 R.C. Brs.	180,985	27,500	*208,485
1-3TC23-P 3TC103	Butte	3, 47 3, 47	Che Che	In Chico		11/10/49	Clinton Electric Corp.	Signals & Lights	21,909	735	22,644
	Butte			At Intrs. on Main St. & Broadway		4/25/51	Day Labor	Lights	8,322		*8,322
1-3TC57	Butte	21	B	Bet. Oroville & Feather River	4.1	4/12/49	Rice Bros., Inc.	U.R.S. & Seal Coat	59,867	4,759	64,626
	Butte	21	C	Bet. Jarboe Pass & Plumas Co. Line	1.5	4/17/47	Day Labor	Resurface	6,477	71	6,548
51-14TC1 51-3TC10 51-14TC30	But. Gle. Butte Butte	45 45 45	A, C A A	See Glenn County Bet. Biggs Rd. & Rte. 3 Across Tule Canal	2.0	8/ 9/50 11/ 2/50	Eugene G. Alves B. S. McEldeery	Grade, Gravel & Seal Widen 2 Conc. Brs.	35,663 19,815	7,450 7,000	*43,113 *26,815
51-3TC3	Butte	87	A	Bet. 0.7 Mi. N. of Yuba Co. Line & Union School	8.2	5/17/50	M. J. Ruddy & Son	Gr., P.M.S. & Structs.	121,450	15,000	*136,450
51-14TC18	Butte	87	A	Across Oak Knob Draw. 6.7 Mi. S. of Oroville		10/26/50	C. C. Gildersleeve	Widen R.C. Br. & Approaches	7,383	1,880	*9,263

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
1-14TC66 52-14TC1	Butte	87	B	Across Butte Creek		5/12/49	Low Jones Const. Co.	Repair Bridge	\$18,365	\$1,489	\$19,854
	Butte	87	B	Across Clear Cr., 9.8 Mi. NW. of Oroville.		4/ 2/51	R. C. Downer	R.C. Br. & Apprs.	45,909	8,000	*53,909
3DC11	Butte	FAS 757		Bet. 2 Mi. E. of Chico & Paradise.	9.2	11/19/48	Granite Const. Co.	Grade, U.R.B. & R.C. Bridge	387,889	32,810	420,699
3DC20	Butte	FAS 757		Bet. 2 Mi. E. of Chico & Paradise.	9.2	5/ 9/50	A. G. Raish Co.	P.M.S.	112,175	5,064	117,239
3DC14	Butte	FAS 758		Bet. Cherokee Canal & Pennington Rd.	3.7	6/ 7/49	W. H. O'Hair Co.	Grade, B.S.T. & Widen 2 R.C. Brs.	106,151	12,500	*118,651
3DC16	Butte	FAS 759		Bet. Oroville-Wyandotte Rd. & Oroville-Quincy Highway	2.3	6/22/49	Richter Bros.	Grade & Culverts	48,812	7,900	*56,712
51-3DC3-P	Butte	FAS 759		Bet. Oroville & Oroville-Quincy Hwy. at Ward Blvd.	3.3	8/18/50	Rice Bros., Inc.	Grade & P.M.S. on C.R.R.	129,294	10,200	*139,494
14DC3	Butte	FAS 1046		Across S. Fork of Feather River at Bidwell's Bar		3/26/47	Dey Contracting Co.	R.C. Bridge	106,035	13,472	119,507
	Butte			Various Locations				Minor Contracts & D.L. Projects	13,286	21	*13,307
0-10TC33	Calaveras	24	B	Bet. 2.6 Mi. E. of Valley Springs & 4.9 Mi. East.	4.2	4/29/48	A. Teichert & Son, Inc.	Resurf. with P.M.S. on U.R.B.	104,733	6,817	111,550
51-10TC8	Calaveras	24	E	Bet. Murphys & Big Trees	5.6	6/10/50	M. J. Ruddy & Son	Grade & P.M.S. on I.B.M.	337,842	48,000	*385,842
14WLC35	Calaveras	24	Ang	Across Angeles Creek		6/24/46	J. Henry Harris	Conc. Bridge & Approaches	39,007	4,285	43,292
14WLC52	Cal. Ama.	65	A, C	Across Mokelumne River		6/ 4/47	Charles Scott	Repair Bridge	6,515	529	7,044
1-14TC75	Calaveras	65	A	Across Murray Creek		8/10/49	S. C. Lelover & D. Gerald Bing	Steel Bridge & Approach	51,775	5,407	57,182
52-14TC10	Calaveras	65	A	Across N. Flk. Calaveras Riv., Abt. 2.5 Mi. N. of San Andreas.	0.1	7/24/51	Chas. S. Moore & Robt. R. Murdoch	R.C. Br. & P.M.S. on I.B.M. on Apprs.	70,471	10,500	*80,971
14WC7	Calaveras	65	B	About 9 Mi. N. of Angeles Camp		6/11/46	Bati Rocca	Cattlepass	4,787	1,548	6,335
10AN15	Calaveras	Access		Bet. Sandy Gulch Mill Pond & J. P. Lodge Rd.		5/22/45	Day Labor	Purchase Oil & Provide Engineering	5,450		5,450
10AN21	Calaveras	Access		Bet. Toyon & West Point	15.6	10/18/46	Day Labor	Repairs	26,107	828	26,935

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost.	Const. engr.	Total
10DC1	Calaveras	FAS 952		Bet. Rte. 65 & Mountain Ranch	8.9	7/11/47	Louis Bisconti & Son	Grade & B.S.T.	\$171,770	\$16,600	*\$188,370
	Calaveras			Various Locations				Minor Contracts & D.L. Projects	13,852		*13,852
3TC22	Colusa	7	A, B	Bet. 3 Mi. N. of Arbuckle & 4 Mi. S. of Williams	3.3	2/ 5/46	Harns Bros.	Grade & P.M.S.	220,143	34,347	254,490
3TC66	Colusa	7	A	Bet. Arbuckle & 0.6 Mi. S. of Geneva	3.0	5/12/47	Day Labor	Improve Shldr.	10,834	30	10,864
1-3TC58	Col. Gle.	7	B, Wms, C, A	Bet. S. of Williams & S. of Willows	26.3	4/19/49	Westbrook & Pope	B.S.T. to Shldr.	32,998	4,594	37,592
3TC31	Colusa	7	Wms	Bet. 239 ft. S. of F St. & D St.	0.3	8/19/46	Harns Bros.	Repair with P.M.S.	4,805	457	5,262
52-3TC1	Colusa	15	B	Bet. Colusa & Meridian	6.9	4/ 2/51	Harns Bros.	Widen & P.M.S.	142,400	12,500	*154,900
14DC10	Colusa	FAS 738		Across Sacramento River at Colusa		4/21/47	Lord & Bishop	Repair Steel Br.	133,585	6,878	140,463
52-3DC1	Colusa	FAS 761		Bet. 5.8 Mi. N. of Colusa & Glenn Co. Line	8.3	7/ 3/51	Harns Bros.	Grade & P.M.S. on I.B.M.	153,186	15,200	*168,386
3DC7	Colusa	FAS 1033									
		1035									
		1036									
	Colusa			Bet. Williams & Stone Corral Cr.	8.6	9/23/47	Frederickson & Kasler	Grade, I.B., & R.C. Bridge	83,300	790	84,090
				Various Locations				Minor Contracts & D.L. Projects	1,571	147	*1,718
COFC-8	C.C. Sol.	7	A, F	On Carquinez Bridge		3/25/47	Minton & Kubon	Railings	26,534		26,534
COFC-2	Contra Costa	7	A	At Carquinez Strait		1/ 4/49	Ben. C. Gerwick, Inc.	Repair Fender	37,018		*37,018
COFC-4	C.C. Sol.	7	A, F	Across Carquinez Strait at Crockett		7/22/49	Crabbe Electric	Electrical Equipment	8,693		*8,693
COFC-1	Contra Costa	11	A	Across San Joaquin River at Antioch		6/ 8/48	H. F. Lauitzen	Repair Bridge	4,456		4,456
COFC-3	C.C. Sac.	11	A, C	Across San Joaquin River at Antioch		7/22/49	Pacific Bridge Painting Co.	Clean & Paint Br. (portions)	24,255		*24,255
4TC23	C.C. Ala.	14, 69	A, Pin, Her, B, ECr, Reh, Alb	See Alameda County							
4TC29	Contra Costa	14	A	At San Pablo Bet. Wildcat Cr. & San Pablo Cr.	1.0	8/24/46	J. R. Armstrong	Widening & A.C.	87,964	24,169	112,133

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
0-4TTC1-P	Contra Costa..	14	A	San Pablo Ave. at 13th St.-----	---	8/ 5/48	H. C. Reid & Co.-----	Signals & Lights-----	\$10,456	\$317	\$10,773
4TC31	Contra Costa..	14	B	Bet. Fourth St. & First St. in Rodeo.-----	0.3	10/14/46	Lee J. Immel-----	Widen & A.C.-----	16,815	2,566	19,381
4TC50	Contra Costa..	14	B	At Second St. & Parker Ave.-----	---	11/19/46	Day Labor-----	Signals-----	5,090	404	5,494
4TC38	Contra Costa..	14	B	Bet. Sixth St. & Fourth St. in Rodeo.-----	0.3	5/28/47	Morgan Const. Co.-----	Widen with A.C. & Const. Shldrs.-----	11,527	1,960	13,487
53-4TC1	Contra Costa..	14	B	Bet. Willow Rd. & First St. in Rodeo.-----	0.7	4/ 1/52	Lee J. Immel-----	Widen with P.M.S. on C.T.B.-----	63,072	8,500	*71,572
4TC40-P	Contra Costa..	14	ECr, Rch.	In El Cerrito & Richmond on San Pablo Ave. at 10 Intras. Bet. Stockton Ave. & McBride-----	---	6/24/47	Severin Electric Co.-----	Signals-----	63,098	2,824	65,922
1-4TMC18-P	Contra Costa..	14	ECr	On San Pablo at Fairmount & Potrero-----	---	5/ 9/50	L. H. Leonardi Electric Const. Co.-----	Signals-----	8,795	1,270	10,065
52-4TTC34-P	Contra Costa..	14	ECr, Rch	Intras. San Pablo Ave. with Manila Ave.-Bay Ave. in El Cerrito.-----	---	4/24/52	R. Flatland-----	Signals-----	3,525	500	*4,025
0-4TC61	Contra Costa..	14	Her, B	Bet. Pinole Overhead & E. of Rodeo.-----	1.5	6/30/48	J. Henry Harris-----	Grade, P.M.S. & Widen 2 Conc. Struct.-----	112,337	12,321	124,658
1-4TC107	Contra Costa..	14	Her, B	Bet. Hercules & Oleum.-----	1.6	6/28/50	J. R. Armstrong-----	P.M.S., Signals & Lights.-----	163,062	20,790	*183,852
0-4TTC7-P	Contra Costa..	14	Pin	At San Pablo & Tennent Ave.-----	---	6/ 9/49	L. H. Leonardi Electric Const. Co.-----	Signals & Lights-----	9,549	1,600	*11,149
4W39	Contra Costa..	69	ECr	At Potrero Ave.-----	---	11/ 1/46	Day Labor-----	Signals-----	5,143	600	*5,743
0-4GC17-P	Contra Costa..	69	Rch	Bet. 47th St. & Garrard Blvd.-----	---	2/24/49	Tri-Cities Elec. Serv. Inc.-----	Signals & Lights-----	51,166	---	*51,166
0-4TMC15	Contra Costa..	69	Rch	Bet. Cutting Blvd. & 24th St.-----	---	3/ 1/49	Lee J. Immel-----	Resurface with P.M.S.-----	21,757	---	21,757
51-4TC2	Contra Costa..	69	Rch	Across Rust Drain.-----	1.0	4/ 1/50	Lee J. Immel-----	R.C. Culvert.-----	32,634	2,930	35,564
4TC37	Contra Costa..	69	Rch	Bet. Contra Costa Co. Line & 25th St.-----	2.6	9/19/50	Day Labor-----	Remove Curbs & Reconst. Shldrs	7,500	---	7,500
51-4TC27-P	C.C. Ala.-----	69	Rch, Bet	See Alameda County	---	---	---	---	---	---	---
4WC25	Contra Costa..	75	A, B	Bet. Broadway Tunnel & 3.5 Mi. E. of Walnut Creek-----	5.3	6/25/46	N. M. Hall Sons-----	Repair with I.B. & P.M.S.-----	25,177	3,942	29,119
4W31	Contra Costa..	75	A	At Oakland St. & Moraga Rd.-----	---	8/14/46	Day Labor-----	Signals-----	15,332	798	16,130
1-4TC84	Contra Costa..	75	A, WIC	Bet. 3.5 Mi. E. of Broadway Tunnel & Rte. 107-----	5.6	5/ 9/49	J. R. Armstrong-----	Grade & P.M.S.-----	312,489	38,618	351,107
4T133	Contra Costa..	75	A	At Orinda Road-----	---	6/ 8/50	Day Labor-----	Improve Intras.-----	6,941	---	6,941
4WC26-F	Contra Costa..	75	B, C	Bet. Jet. Rte. 106 & 1 Mi. E. of Port Chicago Rd.-----	2.6	6/28/46	Harms Bros.-----	Grade, P.C.C. & A.C.-----	598,477	72,155	670,634
4T130	Contra Costa..	75	B	Bet. Monument & Concord-----	2.1	3/10/50	Day Labor-----	Subsals-----	5,271	---	5,271
51-4TC12	Contra Costa..	75	B	Bet. Monument & Concord-----	2.1	8/21/50	J. R. Armstrong-----	Grade & P.M.S. on I.B.M. & C.T.B.-----	107,562	19,100	*126,662

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
4WC23	Contra Costa..	75	C, D	Bet. Pittsburg & 4 Mi. E. of Brentwood	10.1	4/22/46	Lee J. Immel..	Widen Shldr. & Br. with P.M.S.	\$82,463	\$9,422	\$91,885
0-4TC59	Contra Costa..	75	D	At Old River Bridge..	0.2	6/18/48	J. R. Armstrong..	P.M.S. on C.R.B.	77,861	9,864	87,225
1-4TC80	Contra Costa..	75	D	Bet. SE. of Brentwood Jct. & Byron Rd.	1.4	4/1/49	C. M. Syar..	P.M.S. on C.R.B.	54,293	5,878	60,171
4AWC2	Contra Costa..	75, 106	E, Cnd, C	Bet. Concord Ave. & 0.4 Mi. W. of Ohner Sta.	2.3	3/12/46	Guy F. Atkinson Co.	Grade & P.C.C.	225,687	36,716	262,403
1-4TC101-F	Contra Costa..	75	F, Pit	Bet. Port Chicago Rd. & Pittsburg..	4.5	3/3/50	Parish Bros.	Grade, P.M.S. & 2 R.C. Brs.	818,407	138,000	*956,407
0-4TTC2	Contra Costa..	75, 106	WIC, C	Main St. at Mt. Diablo Blvd. & Ygnacio Ave. in Walnut Creek & on Rte. 106 at Pacheco Rd.		8/16/48	Tri-Cities Elec. Service..	Signals & Lights	26,719	3,196	29,915
0-4TTC64	Contra Costa..	106	A	Bet. Christie Underpass & Glen Frazer Sta.	1.7	6/29/48	Fredrickson & Watson Const. Co.	Grade & P.M.S. on C.R.B.	368,953	37,749	406,702
51-4TTC35	Contra Costa..	106	A	Bet. Luzon UP. & Christie UP.	3.1	5/24/51	Lee J. Immel..	Grade & P.M.S.	129,630	15,000	*144,630
52-4TTC14	Contra Costa..	106	A	At Franklin Cr., near Glen Frazer	0.3	9/4/51	Eugene G. Alves	Grade, P.M.S. on C.R.B. & I.S.M., & SL. Cts.	33,838	6,000	*39,838
4W50	Contra Costa..	106	C	Bet. Muir Sta. & Rte. 75.	1.0	3/31/47	Day Labor	Resurfacing	18,353	529	18,882
1-4TTC79	Contra Costa..	106	C	Bet. Martinez Rd. & Willow Pass.	3.6	4/1/49	Gallagher & Burk, Inc.	P.M.S.	155,631	10,564	166,195
52-4TTC18	Contra Costa..	106	C	At Walnut Cr.		2/8/52	Day Labor	Improve Channel	18,136		*18,136
52-14TTC11	Contra Costa..	106	Her	Across Refugio Cr. & Hercules Powder Co. Rds.		8/27/51	Bos Const. Co.	Repair Timber Br.	17,903	3,500	*21,403
4WC29-P	C.C. Ala.	107.5	A, B	See Alameda County							
0-4TTC57	Contra Costa..	107	A	Bet. Alameda Co. Line & 0.2 Mi. S. of San Ramon Cr.	4.2	5/25/48	Granite Const. Co.	Grade & P.M.S.	180,282	16,155	196,437
51-14TTC24	Contra Costa..	107	A, WIC	Across Walnut Cr. near S.C.L. of Walnut Creek		12/21/50	H. H. Anderson..	Widen R.C. Br. & P.M.S. on I.E.M. on Apps.	38,860	6,000	*44,860
51-4DC4	Contra Costa..	FAS 609		Bet. 7.1 Mi. E. of Clayton & 12.4 Mi. W. of Byron.	0.5	5/14/51	Louis Biasotti & Son..	Grade & P.M.S.	79,659	6,552	*86,211
51-4DC2	Contra Costa..	FAS 610		Bet. State Rte. 75 & 1.6 Mi. SE. of Byron.	3.2	8/18/50	J. R. Armstrong..	Widen with P.M.S.	90,839	10,000	*100,839

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
14DC9	Contra Costa	FAS 797		Across Pacheco Slough		4/14/47	Duncanson-Harrelson Co.	Steel Swing Br.	\$217,938	\$13,349	\$231,287
4DC10	Contra Costa	FAS 801		See Alameda County							
	Contra Costa			Various Locations				Minor Contracts & D. L. Projects	64,012		*64,012
1TL7	Del Norte	1	A	Across Panther Cr., Bridge No. 1-35		9/28/45	Day Labor	Repair Bridge	6,212	111	6,323
1T44	Del Norte	1	A	Across High Prairie Creek		9/10/47	Day Labor	Repair Bridge	5,898	162	6,060
1T45	Del Norte	1	A	Across Hunter Creek		11/17/47	Day Labor	Redeck Bridge	6,479	184	6,663
1-TC34	Del Norte	1	A, B	Bet. Richardson Cr. & S. of Crescent City	6.3	4/ 1/49	Harms Bros. & C. M. Syar	P. M. S.	259,578	22,078	281,656
1T74	Del Norte	1	A, B	Bet. Richardson Cr. & Klamath	6.28	12/ 1/49	Day Labor	Sl. Ct.	5,774		5,774
51-ITC4	Del Norte	1	A	Bet. Klamath River Bridge & Wilson Cr.	6.7	4/ 1/50	Harms Bros. & C. M. Syar	P. M. S. on I. B. M. & C. T. B., & Seal Cost	265,556	23,321	*288,877
51-14TC12	Del Norte	1	A	Across Hunter Creek, 2.4 Mi. N. of Klamath		8/21/50	Harms Bros. & C. M. Syar	R. C. Bridge & Apps.	86,533	7,372	93,905
1TC13	Del Norte	1	B	Bet. 6.3 Mi. & 2.6 Mi. S. of Crescent City	3.7	5/ 3/46	W. C. Railing	I. B. M. & Sl. Ct.	105,329	9,330	114,659
52-IBC1	Del Norte	1	E	Along Smith Riv. Bet. 27.1 Mi. & 30.8 Mi. NE. of Crescent City	0.4	8/16/51	C. W. Peterson	Repair Storm Damage	160,172		*160,172
0-ITC30	Del Norte	1	K, A	See Humboldt County							
1-ITC27	Del Norte	46	A	Across Turwar Creek, About 3 Mi. E. of Klamath	0.7	5/ 5/48	Baldwin-Straub Corp. & Arthur B. Siri, Inc.	Steel Br. & Apps.	200,611	21,257	221,868
51-1TC3-F	Del Norte	71	A, B	Bet. Smith Riv. Br. & 0.25 Mi. N. of Winton Corners	4.7	4/12/50	N. M. Ball Sons.	Grade, I. B. & Steel Br.	412,136	52,000	*464,136
52-1TC1-F	Del Norte	71	A, B	Bet. Smith Riv. Br. & N. of Winton Corners	4.7	4/ 2/51	Mercer, Fraser Co. Merc., Fraser Gas Co., Inc.	Grade & P. M. S.	212,534	25,550	*238,084
1-ITC35	Del Norte	81	A	At Bear Creek	0.3	4/ 7/49	C. E. Johnson	Grade, I. B. M. & Sl. Ct.	32,850	7,073	*39,923
14DC42	Del Norte	FAS 984		Across Hunter Creek		8/13/48	Baldwin-Straub Corp. & Arthur B. Siri, Inc.	R. C. Bridge & Apps.	62,880	6,114	68,994
14DC34	Del Norte	FAS 985		Across Smith River About 12 Mi. NE. of Crescent City		3/11/48	Underground Const. Co.	Steel Bridge	85,433	10,841	96,324

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
---	Del Norte	---	---	Various Locations	---	---	---	Minor Contracts & D.L. Projects	\$18,254	\$40	*\$18,294
3TC23-F	El Dorado	11	B	Bet. Shingle Springs & 1.25 Mi. W. of El Dorado	3.4	2/19/46	Utah Const. Co.	Grade & P.M.S.	271,157	47,741	318,898
51-3TC12-F	El Dorado	11	D, E	Bet. R.R. Crossing & Five Mi. Terrace	2.0	10/26/50	H. Earl Parker, Inc.	Grade & P.M.S. on C.R.B.	304,389	40,000	*\$344,389
3TY0	El Dorado	11	E, F, H, T	Bet. Placerville & Mays Jct. (portions)	---	7/ 1/49	Day Labor	Parking Areas	5,840	---	5,840
3TY4	El Dorado	11	F	At Pacific House Curve	0.1	4/15/48	Day Labor	Widen Curve	5,826	---	5,826
52-14TC4	El Dorado	11	K	Across Upper Truckee Riv. & Trout Cr.	---	6/ 2/51	H. W. Ruby	Repair 2 Timber Brs.	45,481	5,300	*\$50,781
52-3TC10	El Dorado	11	Pier, D	Bet. R.R. Crossing near W.C.L. & near E.C.L. in Pier. (por.)	1.5	7/25/51	Day Labor	Remove Surf.	4,183	---	*4,183
52-3TC11	El Dorado	11	Pier, D	In Placerville Bet. R.R. Crossing near W.C.L. & E.C.L.	2.1	8/ 9/51	Rice Bros. Inc.	P.M.S. on U.R.B.	49,587	3,000	*\$52,587
52-14TC5	El Dorado	23	A	Across Echo Cr.	---	6/ 6/51	H. W. Ruby	R.C. Br. & Apps.	42,729	6,500	*49,229
14WLC41	E.D. Pla	65	A, A	See Placer County	---	---	---	---	---	---	---
51-14TC5	El Dorado	65	B	Bet. 0.5 Mi. W. & 0.5 Mi. E. of S. Fk. American Riv. near Lotus	1.0	4/28/50	Thomas Const. Co.	Grade, B.S.T. on I.B.M. & Std. & R.C. Br.	189,125	21,500	*\$210,625
52-14TC8-F	E.D. Ama	65	C, A	See Amador County	---	---	---	---	---	---	---
51-3TC17	El Dorado	65	Pier	At Intrs. of Coloma, Spring, & Mill Sts.	---	6/12/51	Joe Chevreaux	Widen Intrs.	4,084	800	*4,884
3W17	El Dorado	93	A	Bet. Rte. 65 near Placerville & Pino Grande Rd.	3.2	1/24/46	Day Labor	Widen, Improve Alignment & Pen. Tr.	29,913	2,393	32,306
3TS6	El Dorado	93	A	Bet. Placerville & Georgetown	1.1	6/14/48	Day Labor	Widen & Surface	44,983	---	44,983
1-3TC70	El Dorado	93	B	Bet. 2.4 & 3.4 Mi. W. of Georgetown	1.0	12/ 2/49	T. M. Montgomery	Grade & Sl. Ch.	42,240	13,596	55,836
3DC12	El Dorado	FAS	---	Bet. Diamond Springs & Bell Ranch	4.7	1/19/49	M. W. Brown	Grade & Sl. Ch.	94,409	11,722	106,131
51-3DC2	El Dorado	FAS	---	Bet. Bell Ranch & 1.5 Mi. SE'ly	1.5	8/10/50	John G. Mehren	Grade & Pen. Tr.	50,981	10,107	*\$61,088
3DC15	El Dorado	FAS	---	Bet. Lotus-Rescue Rd. & Rte. 65	3.9	6/27/49	Tyson & Waiters Co.	Grade, Pen. Tr. & Sl. Ch.	57,014	10,260	*\$67,274

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
3DC2	El Dorado	PAS 1069		Bet. Georgetown & U.S. Ranger Station	3.6	6/26/47	Miles & Bailey	Grade, Pen. Tr. & Sl. Ct.	\$73,507	\$10,621	\$84,128
	El Dorado			Various Locations				Minor Contracts & D.L. Projects	24,758		*24,758
6TC4-F	Fresno	4	A, Fow, B	Bet. ¼ Mi. S. of Fowler & Calwa OH	6.5	10/ 8/46	Gunner Corp. & J. E. Haddock, Ltd.	Grade & P.M.S.	796,223	71,349	867,572
6TC7	Fresno	4	A, Fow, B	Bet. ¼ Mi. S. of Fowler & Calwa OH	6.4	8/27/47	F. Gunner Gramatyk	Barrier Cuts	16,509	1,400	17,909
0-6TC15	Fresno	4	A, C	Bet. Selma and Fowler	3.4	7/29/48	Matthew & Jorgenson	Barrier Posts	9,869	1,458	*11,327
52-6TC2	Fre, Mad	4	A, C	Bet. N. of Selma & Merced Co. Line	13.0	7/24/51	Huetting-Schromm & Bennett	Prepare & Plant Roadside Areas	18,768	5,267	*24,035
52-6TC5	Fresno	4	A	Bet. Selma & Fowler	3.6	11/21/51	Baun Const. Co.	Grade & P.M.S. on U.R.B.	105,680	11,550	*117,230
6TC3	Fresno	4	B, Fre	Bet. Calwa OH. & Fresno		1/17/46	Marshall S. Harrahan	Grade & P.C.C.	374,675	43,700	418,375
6WC6-P	Fresno	4, 125	B, A	Bet. Fowler & Calwa OH. & Bet. 4.6 Mi. N. of Kings Co. Line & Mountain View Ave.	11.0	4/ 2/47	Gunner Corp.	Resurface with P.M.S.	110,364	9,000	119,364
6GTC1-FP	Fresno	4	B, Fre	Bet. S.C.L. & San Benito Ave.	1.2	6/30/47	Guy F. Atkinson Co.	Grade, P.C.C., P.M.S. & Sl. UP	1,366,751	143,612	*1,510,363
1-6TC18	Fresno	4	B, Fre	Bet. Church Ave. & Broadway	1.2	5/ 6/49	Jannoch Nurseries	Landscaping	20,881	4,054	24,935
51-6TC6-P	Fresno	4	B, Fre	At Church Street	1/23/51	1/23/51	Westates Elec. Const. Co.	Signals	13,207	1,009	14,216
52-6TC3	Fresno	4	B	At Intrs. of U.S. 99 with Central Ave. & Chestnut Ave.		9/19/51	Dale Elec.	Lights	4,309	1,000	*5,309
0-14TC4-P	Fre, Mad	4	C, A	Across San Joaquin River N. of Hendron	1.0	6/10/48	Erickson, Phillips & Weisberg	Sl. Truss Br. & Apps.	622,736	46,386	669,122
6TMC1-P	Fresno	4	Fow	At Merced St. & Rte. 4		12/31/47	Severin Elec. Co.	Signals & Lights	13,280	1,290	14,570
0-6TC12	Fresno	4	Fre, C	Bet. Belmont Circle & Clinton Ave.	1.8	4/15/48	Guy F. Atkinson Co.	Grade & P.M.S.	229,426	26,428	*255,854
0-6TC13	Fresno	4	Fre, C	Bet. Belmont Circle & Clinton Ave.		5/19/48	Tri-Cities Elec. Service	Signals & Lights	19,656	1,310	21,266
6TC11-P	Fre, Tul	4	Kugh, A E, D	See Tulare County							
6TC8-P	Fre, Tul	4	Kugh, A E, D	Bet. 0.5 Mi. S. of Kingsburg & Selma	5.2	10/20/47	N. M. Ball & Sons	Grade and P.C.C.	631,900	65,941	697,841
51-6TC5	Fresno	10	A, B	Bet. 2 Mi. E. of Monterey Co. Line & 0.2 Mi. E. of Hot Springs Canyon Rd.	3.4	10/26/50	John F. Blakemore	B.S.T. & R.C. Br.	200,442	40,000	*240,442
14WLC60	Fresno	41	M	Across Colony & Helm Canals		9/ 5/47	E. G. Perham	2 R.C. Bridges	49,805	4,029	53,834

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
14WLC27	Fresno	41	P	Bet. 2 Mi. E. of Mendota & 2 Mi. W. of Tranquility Rd.	---	12/21/45	Dan Caputo & Edward Kettle	12 R.C. Br. & R.C. Box Culv.	\$194,189	\$14,433	\$208,622
14WLC43	Fresno	41	P	Across Kings Slough	---	1/ 8/47	Lord & Bishop	Reconstruct Timber Bridge	21,573	1,098	22,671
67C22	Fresno	41	S	Across Alta Main Canal	---	11/12/48	Day Labor	Redeck Bridge	6,994	---	6,994
51-67C2	Fresno	41	S	Across Kingsburg Canal near Centerville	0.5	6/22/50	Ted F. Baun	R.C. Culv. & Apps.	42,387	7,086	49,433
1-67C19	Fresno	41	T	Bet. Orange Cove Rd. & White Deer Rd.	5.4	11/ 1/49	R. A. Heintz Const. Co.	Grade & B.S.T.	454,235	64,669	518,904
6W8	Fresno	76	B	Across Big Dry Creek Br. No. 42-91	---	9/13/46	Day Labor	Widen Bridge with R.C. Slab	7,303	25	7,328
52-147C12	Fresno	76	B	Across Big Dry Cr., About 12 Mi. E. of Academy	---	8/31/51	Volpa Bros.	Widen Timber & R.C. Br.	12,823	3,000	*15,823
6WC5-F	Fresno	125	C	Bet. Shields Ave. & Herndon Ave.	4.0	11/14/46	Basich Bros. Const. Co. & Basich Bros.	Grade & A.C. on C.R.B.	306,267	32,151	338,418
6T23	Fresno	125	Fre	At McKinley, Clinton & Shield Aves.	---	1/ 5/51	Day Labor	Signals	4,921	196	5,117
1-147C80	Fresno	138	A, Chng	Across Warthan Cr. in Coalinga	---	9/ 8/49	Thomas Const. Co.	R.C. Bridge & Apps.	41,081	6,779	47,860
1-6DC25-P	Fresno	FAS 559	---	On Madera Ave. Bet. Church & Adams.	5.5	4/21/50	Gene Richards, Inc.	Grade & P.M.S. on C.T.B.	114,527	14,712	129,239
51-6DC3-P	Fresno	FAS 561	---	On Shaw Ave. Bet. Rte. 4 & Fruit Ave.	3.3	11/18/50	Gene Richards	Grade, P.M.S. & Conc. Br.	128,814	14,500	*143,314
6DC5	Fresno	FAS 568	---	On Highland Ave. Bet. Kings Co. Line & Elkhorn Ave.	3.3	6/ 7/47	Valley Pav. & Const. Co.	Grade & P.M.S.	142,214	8,723	150,937
6DC17	Fresno	FAS 568	---	Bet. Elkhorn Ave. & Rte. 4	6.4	1/26/49	Phoenix Const. Co. & Oil-fields Trucking Co.	Grade & P.M.S.	215,720	16,983	232,703
14DC12	Fre, Kin.	FAS 623	---	See Kings County	---	---	---	---	---	---	---
51-6DC2	Fresno	FAS 808	---	Bet. Sacramento Ave. & Glenn Ave.	5.0	8/30/50	Volpa Bros.	Grade & B.S.T.	99,590	19,621	119,211
6DC1	Fresno	FAS 809	---	On Fresno-Coalinga Rd. Bet. Mt. Whitney Ave. & State Highway Rte. 10	8.6	11/13/46	Louis Biasotti & Son	Grade & B.S.T.	153,818	1,550	155,368
14DC16	Fre, Mad	FAS 811	---	Across San Joaquin River & Overflow at Firebaugh	---	5/19/47	Charles MacClosky Co.	2 Steel Bridges	251,944	13,320	265,264
6DC16	Fresno	FAS 814	---	On Clovis Ave. Bet. Ventura Ave. & Shaw Ave.	5.0	11/ 9/48	Ted F. Baun	Widen & P.M.S.	144,069	12,053	156,123

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
6DC19	Fresno	FAS 817		On Manning Ave. Bet. U.S. 99 & Indianola	3.9	8/ 3/49	Oilfields Trucking Co. & Phoenix Const. Co., Inc.	Grade & P.M.S. on U.R.B.	\$141,000	\$11,770	\$152,770
51-14DC4-P	Fresno	FAS 817		Across Kings Riv.		11/22/50	Thomas Const. Co.	Widen Conc. Br.	106,463	10,288	116,731
51-6DC7-P	Fresno	FAS 817		On Manning Ave. Bet. Zediker Ave. & Kings Riv. Br.	3.0	3/ 7/51	Baun Const. Co.	Grade & P.M.S.	96,759	16,253	*113,012
6DC3	Fresno	FAS 823		On Reed Ave. Bet. Manning Ave. & Rte. 41	8.0	5/16/47	A. Teichert & Sons, Inc.	Grade & P.M.S.	197,337	14,035	211,372
6DC9	Fre, Tul	FAS 1142		Bet. 0.1 Mi. W. of Tulare Co. Line & 1 Mi. E. of Kings River	1.9	2/27/48	P. J. Moore & Son & Harms Bros.	Grade & B.S.T.	59,156	4,312	63,468
6TT26	Fresno	Var	Fre	In Fresno.		8/ 9/49	Day Labor	Signals	15,706	302	16,008
1-3TC62	Glenn	7	A, Wlog, B, C, Ori	Various Locations				Minor Contracts & D.L. Projects	68,554	338	*68,892
52-3TC9	Glenn	7	B	Bet. 0.3 Mi. S. of Willows & Tehama Co. Line	19.7	5/20/49	W. C. Railing	Resurface with P.M.S.	70,125	6,531	76,656
1-3TC58	Gle, Col	7	C, A	Bet. 1.1 Mi. S. of Walker Cr. & Walker Cr. See Colusa County	1.1	6/21/51	C. V. Kenworthy	Grade & P.M.S.	136,749	14,100	*150,849
14WLC46	Glenn	45	B, C	Across Sacramento Riv. & E. Branch of Razor Slough	0.6	2/26/47	Johnson-Western Co.	2 Br. Superstructures & Apps.	391,458	40,474	431,932
14WLC61	Glenn	45	B, C	Across Sacramento Riv. & E. Branch of Razor Slough		9/17/47	Judson-Pacific-Murphy Corp.	2 Superstructures	233,897	18,900	*252,797
1-14TC74	Glenn	45	B	At Butte City		7/23/49	Lord & Bishop	Repair Bridge	13,983	1,608	15,591
0-14TC36	Glenn	45	C	Across Sacramento Riv. Overflow & Campbell Slough		4/ 1/48	Chas. MacClosky Co.	Redeck 2 Bridges	75,874	10,463	86,337
51-14TC1	Gle, But	45	C, A	Across Big Butte Creek		4/ 1/50	Transocean Engineering Co.	Std. Br. & Apps.	72,221	10,300	*82,521
1-3TC73	Glenn	45	C	At Butte City Ferry Crossing		5/17/50	Baker Trucking Co.	Restore Levee & Place Revetment	6,196	1,670	7,866

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
3WL23	Glenn	47	A	Across Glenn-Colusa Canal, Br. No. 11-18.	---	2/21/46	Day Labor	Repair Substructure	\$7,268	\$32	\$7,300
1-14TC60	Glenn	47	A	Across Glenn-Colusa Irrigation Canal	---	4/1/49	Shaul Const. Co.	Replace Bridge	13,623	2,232	15,855
3T95	Glenn	47	Orl	Bet. 1st & 2d Sts. in Orland	---	2/9/50	Day Labor	Correct Drainage	5,445	---	5,445
3DC4	Glenn	FAS	---	Bet. Willows & Athena	8.5	7/23/47	H. Earl Parker, Inc.	Grade, B.S.T. & R.C. Bridge	123,227	12,161	135,388
14DC43	Glenn	531	---	Across Salt Creek	---	9/29/48	George M. Carr & Bati Rocca	R.C. Bridge	17,727	2,436	20,163
1-14DC54-P	Glenn	FAS	---	Across Grindstone Cr. & Clrk's Valley Cr.	---	9/19/49	Weidner Const. Co.	2 R.C. Bridges	46,284	5,950	52,234
52-14DC1	Glenn	FAS	---	Across Elk Cr., About 24 Mi. W. of Willows	---	7/11/51	James H. McFarland	R.C. Bridge	21,395	3,794	*25,189
14DC33	Glenn	FAS	---	Across Central & Provident Canals at Various Locations	---	12/19/47	Erickson, Phillips, & Weisberg	8 R.C. Bridges	174,055	14,105	188,160
1-14DC65	Glenn	1119, 1120, 1121, 1122	---	Across Willow Cr., 3.4 Mi. W. of Rte. 45	---	2/11/50	Bos Const. Co.	Widen R.C. Bridge	9,071	1,414	10,485
51-3DC1	Glenn	FAS	---	Bet. 4.7 Mi. E. of U.S. 99W & State Rte. 45	---	7/15/50	Westbrook & Pope	Grade, I.B., & I.B.M.	48,338	7,359	55,697
---	Glenn	---	---	Various Locations	5.1	---	---	Minor Contracts & D.L. Projects	3,618	---	*3,618
1TC20	Humboldt	1	D, E	Bet. Jordan Cr. & South Scotia Bridge	1.2	6/12/47	Clements & Co.	P.M.S. & Sl. Ct.	30,449	2,564	33,013
1TC18	Humboldt	1	E	Bet. Greenlaw Bluffs & Scotia	3.2	4/2/47	Clements & Co.	P.M.S. & Sl. Ct.	90,188	7,997	98,185
0-1TC25	Humboldt	1	E, F, Fta	Bet. N. Scotia Br. & 16th St. in Fortuna	2.8	4/28/48	Mercer-Fraser Co.	Grade, P.C.C. & P.M.S.	548,892	68,126	617,018
1TC8	Humboldt	1	G, I, J	Bet. Loleia & Patrick's Point	7.5	5/21/45	Mercer-Fraser Co.	Repair with I.B. & P.M. B.M.	181,755	18,869	200,624
1TC11	Humboldt	1	G	Bet. Loleia & Field's Landing	4.0	4/16/46	Mercer-Fraser Co.	Reinforce Base & P.M.S.	93,955	9,064	103,019
14TC51	Humboldt	1	H	At Eureka Slough	---	6/28/48	Tom Hull	Reconstruct Br. Fenders	18,004	2,495	20,499

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
51-1TC11	Humboldt	1, 20	I, A, B	At Jct. with Korbelt Rd.	---	6/15/51	Mercer, Fraser Co. & Mercer, Fraser Gas Co., Inc.	Truck Scales & Apps.	\$47,536	\$5,950	*\$53,486
1TC12	Humboldt	1	J	Bet. Patrick's Point & Big Lagoon.	3.4	4/30/46	Mercer-Fraser Co.	P.M.S. on I.B.M.	98,347	6,865	105,212
1-1TC31-F	Humboldt	1	J	Bet. Stone Lagoon Summit & S. of Orick.	3.8	4/ 5/49	Piombo Const. Co.	Grade.	680,500	73,498	753,998
1TC170	Humboldt	1	J	At Lookout Point.	---	8/19/49	Day Labor	Hydrauger Drains.	39,551	---	39,551
51-1TC7-F	Humboldt	1	J	Bet. 0.5 Mi. S. of Stone Lagoon Summit & 1 Mi. S. of Orick.	3.8	4/26/50	Mercer, Fraser Co. & Mercer, Fraser Gas Co., Inc.	I.S.M., I.B.M. & P.M.S. on C.T.B.	214,518	28,000	*242,518
51-14TC9	Humboldt	1	J	Across Redwood Creek Overflow, 0.8 Mi. W. of Orick.	---	6/14/50	Mercer, Fraser Co. & Mercer, Fraser Gas Co., Inc.	R.C. Bridge & Approaches.	28,374	3,691	32,065
0-1TC23	Humboldt	1	K	Bet. 2.8 & 7.6 Mi. N. of Orick.	4.8	4/ 1/48	Mercer-Fraser Co.	Grade & P.M.S.	172,280	14,399	186,679
0-1TC30	Hum, D.N.	1	K, A	Bet. 2 Mi. S. & 5 Mi. N. of Hum-D.N Co. Line.	2.5	8/17/48	Harms Bros. & C. M. Syar	P.M.S. on C.T.B.	121,313	8,908	130,221
1TC33	Humboldt	1	K	Bet. 7.6 Mi. & 10.4 Mi. N. of Orick.	2.8	4/ 1/49	Mercer-Fraser Co.	P.M.S.	104,203	9,327	113,530
51-1TC5	Humboldt	1	K	Bet. 1 Mi. S. of Orick & 2 Mi. S. of Del Norte Co. Line.	5.2	4/ 1/50	Mercer, Fraser Co. & Mercer, Fraser Gas Co., Inc.	P.M.S. on I.B.M. & C.T.B.	222,027	18,318	240,345
0-1TMC2	Humboldt	1	Eur	Bet. S.C.L. & Eureka Slough Br.	2.6	7/16/48	Mercer-Fraser Co.	Resurf. with P.M.S.	95,602	---	95,602
52-1TC3	Humboldt	1	Trnd, J	Bet. Trinidad & 2.8 Mi. N'ly.	2.8	5/21/51	Mercer, Fraser Co. & Mercer, Fraser Gas Co., Inc.	Grade & P.M.S.	158,946	19,900	*178,846
14WLC28-F	Humboldt	20	A	Across Mad River.	---	1/ 5/46	Mercer-Fraser Co.	Stl. & Conc. Br. & Approaches.	213,710	25,542	239,252
1W25	Humboldt	20	B, C	Bet. Blue Lake & 1 Mi. E. of Redwood Creek.	16.4	9/17/46	Day Labor	Grade & Sl. Ct.	193,639	6,912	200,551
1WC11	Humboldt	20	B, C	Bet. Redwood Summit & 1 Mi. E. of Redwood Cr.	4.7	10/25/46	W. C. Railing	I.B.M.	59,973	2,775	62,748
1WC12-F	Humboldt	20	B	Bet. 1.2 Mi. E. of Korbelt Rd. & 2.7 Mi. E. of Redwood Summit.	10.0	3/26/47	W. C. Railing	Base & Stockpile Screenings.	97,418	---	97,418
14WLC51	Humboldt	20	C	Across Redwood Creek.	---	5/28/47	Osborne Engr. Co.	Repair Steel Truss.	10,991	333	11,324
14WLC59	Humboldt	20	C	Across Redwood Creek.	---	6/30/47	Tom Hull	Erect Steel Truss Span	15,546	1,823	17,369

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
41W10	Humboldt	20	D, C, D	Bet. Willow Cr. & Whites Bar Cr.	15.2	1/23/42	Honor Camp Labor.	Camp; Grade & Surface.	\$1,115,344	\$86,105	\$1,201,449
11765	Humboldt	20	D, C, D	Bet. Willow Cr. & Whites Bar (portions).	15.2	7/ 1/48	Honor Camp Labor.	Grade & Oil.	255,135	18,203	*273,338
11769	Humboldt	20	D, C, D	Bet. Willow Cr. & Whites Bar	15.2	7/ 1/49	Honor Camp Labor.	Grade & Oil.	305,667	22,733	*328,400
11778	Humboldt	20	D, C, D	Bet. Willow Cr. & Whites Bar	15.2	7/ 1/50	Day Labor.	Grade, Pen. Tr. & Sl. Ct.	328,600	22,447	*351,047
117128	Humboldt	35	B	Across Slide Bridge	8/14/46	8/14/46	Day Labor.	Replace R.C. Br.	6,015	6,015	6,015
52-14TC6	Humboldt	35	B	Across Grizzly Cr.	6/13/51	6/13/51	G. M. Carr & Bati Rocca	Repair R.C. Br.	25,359	3,800	*29,159
11775	Humboldt	35	C	Bet. Mi. 3 & Mi. 8, E. of Bridgeville.	2.5	2/23/50	Day Labor.	Base, Surface & Drainage.	9,995	9,995	9,995
11772	Humboldt	46	D, E	Bet. Weitchpec & Orleans	15.9	9/ 6/49	Day Labor.	Grade & P.M.S.	23,962	23,962	23,962
1-14TC61	Humboldt	46	E	Across Camp Creek	4/ 1/49	4/ 1/49	G. M. Carr & Bati Rocca.	Reconst. Sl. Br.	45,768	4,186	49,954
0-1TC29	Humboldt	46	F	Bet. Pearch Cr. & 0.8 Mi. N'ly.	0.9	8/23/48	Fred J. Maurer & Sons.	Grade, I.B. & Culvert.	108,440	15,079	123,519
11776	Humboldt	56	A	Across Salt River Bet. Fernbridge & Ferndale.	0.2	5/17/50	Day Labor.	Bridge.	7,000	7,000	*7,000
51-14TC14	Humboldt	56	A	Across Salt River, SW. of Fernbridge	0.2	8/22/50	Mercer, Fraser Co. & Mercer, Fraser Gas Co., Inc.	R.C. Bridge & Approaches.	109,603	10,500	*120,103
14WLC50-F	Humboldt	84, 46	B, C, D	Across Klamath River at Weitchpec.	0.5	5/12/47	Clifford A. Dunn	Br. Substructure & Apps.	272,657	32,364	305,021
14WC16-P	Humboldt	84, 46	B, C, D	Klamath River at Weitchpec.	0.6	9/23/47	Guy F. Atkinson Co.	Sl. Superstructure & Apps.	376,766	24,035	400,801
1781	Humboldt	84	B	19.2 Mi. N. of Willow Cr. Br. No. 4-143.	1/ 5/51	1/ 5/51	Day Labor.	Radeck & Repair Timber Br.	6,467	6,467	6,467
1DC1	Humboldt	FAS		Bet. Arcata & Ryans Slough Br.	8.0	10/ 3/46	Mercer-Fraser Co.	Grade & P.M.S.	193,830	18,087	211,917
1DC4	Humboldt	FAS		Bet. Jet. Rte. 20, E. of Blue Lake & Korbel.	1.3	5/24/47	Mercer-Fraser Co.	Grade & P.M.S.	54,766	4,618	59,384
1DC2	Humboldt	FAS		On Elk River Rd. Bet. Jet. with Rte. 1, S of Eureka & Elk River School.	2.2	3/26/47	Mercer-Fraser Co.	Grade & Sl. Ct.	62,516	4,845	67,361
1-1DC12	Humboldt	FAS		Bet. 0.7 Mi. E. of Fortuna City Limit & Hydenville.	3.3	7/ 7/50	Mercer, Fraser Co. & Mercer, Fraser Gas Co., Inc.	Grade & R.M.S. on I.B.M.	88,420	12,042	100,462
1DC7	Humboldt	FAS		Bet. Bull Cr. Flat State Park & 7.3 Mi. W'ly.	7.3	7/21/48	John Burman & Sons.	Grade.	169,800	22,594	192,394

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
1DC8	Humboldt	FAS 977		Bet. Whittemore Grove State Park & 2.5 Mi. W'y.	2.5	7/20/48	M. Malfiano & Son, Inc., & Macal Improvement Co., Inc.	Grade	\$79,896	\$12,383	\$921,179
14WC14-F	Humboldt			In Whittemore Grove State Park Across S. Fork of Eel Riv. near Redway		9/16/47	Reed & Tuttle	Repair Sd. Truss Bridge	42,034	5,647	47,681
	Humboldt			Various Locations				Minor Contracts & D.L. Projects	49,435		*49,435
Q-14VC71	Imperial	12	A, B, C	Bet. 10 Mi. & 25 Mi. W. of El Centro		9/29/48	R. M. Price & O. B. Peterson	Redeck 15 Timber Bridges	101,487	12,208	113,695
14VC46	Imperial	12	B	Across Apache Wash & Sandy Ditch		1/26/48	E. G. Perham	Redeck 2 Bns. with P.C.C.	29,129	2,526	31,655
1-11VC42	Imperial	12	B, C	Bet. Plaster City & El Centro	6.0	4/21/49	Roland T. Reynolds	R.M.S.	41,365	4,467	45,832
11VC15-F	Imperial	12, 26	C, ECh, F, Imp, G, Brw	Bet. El Centro & Brawley	13.1	5/16/47	Basich Bros. & Basich Bros. Const. Co.	Grade & P.M.S.	1,524,220	124,076	1,648,296
11V48	Imperial	12, 26	C, ECh, F, Imp, G, Brw	Bet. El Centro & Brawley	13.1	5/18/48	Day Labor	Signs & Stripe	5,192		5,192
11VC18	Imperial	26	A, B, C	Bet. Trifolium Canal & Sandy Beach Rd.	15.1	9/22/47	R. A. Erwin & Cee Tee Const. Co.	Resurf. with B.S.T. & P.M.S., & R.C. Br.	434,736	55,924	490,660
14VC16-F	Imperial	26	B, C	Across Lone Tree Wash & San Felipe Creek		10/31/46	Bent Const. Co.	Conc. Br. & Sd. Br. & Apps.	254,058	17,765	271,823
52-14VC12	Imperial	26	E	Across Tesla Ditch, About 7.3 Mi. S. of Riverside Co. Line		11/21/51	E. G. Perham	R.C. Bridge	21,709	5,600	*27,309
11XC12	Imperial	26, 27	J, ECu	Bet. Calexico & El Centro & in El Centro	12.7	8/ 7/46	Tanner Const. Co.	Grade Portions, Improve Shldrs. & P.M.S.	237,389	26,799	264,188
1-11VVC5-P	Imperial	26, 187	Brw	Main St. at 1st & 6th Sts.		3/17/50	Westates Elec. Const. Co.	Signals & Lights	11,463	1,194	12,657
Q-11VMC15-P	Imperial	26, 187	Cix, Brw	In Calexico & Brawley	3.2	8/13/48	Basich Bros. & Basich Bros. Const. Co.	Resurface with P.M.S.	98,204		98,204

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
11VC14-F	Imperial	26	ECn	On 4th St. & Adams Ave., Bet. Main St. & Imperial Ave.	1.2	1/28/47	R. E. Hazard Const. Co.	Grade & P.C.C.	\$347,975	\$37,694	\$385,669
11VC20-P	Imperial	26	ECn	At Intrs. of 4th St. with Main St. & 8th St. with Adams Ave.		1/20/48	C. E. Seymour	Signals	19,383	371	19,754
11VC34	Imperial	26	ECn, Imp	In El Centro & Imperial		6/29/48	California Etc. Works	Signals & Lights	20,632	328	20,960
1-11VC58	Imperial	27	A, B	Bet. Midway Wells & Colorado River	9.7	4/21/50	E. S. & N. S. Johnson	R.M.S.	53,851	7,055	60,906
14VC18	Imperial	27	B	Near Winterhaven		8/30/46	Tanner Const. Co.	Redeck 8 Timber Brs.	54,453	4,691	59,144
14VC35	Imperial	27	B	Bet. Grays Wells & Winterhaven		9/ 8/47	C. B. Tuttle Co.	Redeck 12 Timber Brs. with P.C.C.	38,426	3,260	*41,686
0-14VC60	Imperial	27	D, A	Across East High Line Canal	0.5	6/29/48	Basich Bros. & Basich Bros. Const. Co.	Steel Bridge & Apps.	112,360	14,582	126,942
52-11VC3-P	Imperial	27	ECn	Bet. 1st St. & E.C.L.	0.5	5/14/51	Anderson Co.	Widen & R.M.S.	71,750	9,500	*81,250
11V56	Imperial	187	A	Bet. 6.1 & 6.4 Mi. N. of Bond's Corner	0.3	9/19/49	Day Labor	Resurface with P.M.S. & Bank Protection	12,373	157	12,530
1-11VC44	Imperial	187, 201	BC, AB	Bet. Holtville & Brawley & Brawley	3.4	5/ 6/49	Warren Southwest, Inc.	R.M.S. on I.B.M.	39,465	5,213	44,678
1-11VC49	Imperial	187	B, C	Bet. Sandia & Alamorio Turns	1.3	11/14/49	E. C. Young & Co.	Grade & R.M.S. on I.B.M.	61,448	13,673	75,121
1-11VC59	Imperial	187	B, C, D	Bet. Holtville & Calpatria	7.4	4/21/50	Arthur A. Johnson	R.M.S. on I.B.M.	79,626	9,600	89,226
51-14VC6	Imperial	187	D	Across New River, 5 Mi. N. of Brawley		9/12/50	Norman I. Fadel	R.C. Bridge & Apps.	53,149	6,749	59,898
1-11VC50	Imperial	187	E, F	Bet. Main St. in Niland & 2 Mi. NW. of Niland	2.2	11/15/49	Roland T. Reynolds & Thomas Const. Co.	Grade, P.M.S. on C.R.B. & I.B.M., & 4 R.C. Brs.	225,100	33,347	258,447
1-11VC52	Imp, Riv.	187	F, G, A	Bet. 2 Mi. NW. of Niland & Durmid	6.0	12/ 9/49	E. L. Yeager Co.	Grade, P.M.S. 14 R.C. Brs. & 32 R.C. Culv.	440,888	50,165	491,053
1-11VC54	Imperial	187	F, G	Bet. 2 Mi. NW. of Niland & Riverside Co. Line	21.8	3/20/50	Hensler Const. Corp.	Grade, I.B.M. & R.M.S.	408,977	49,287	458,264
0-14VC72	Imperial	198	A	Across Condit & Bondit Ditches		9/29/48	R. M. Price & O. B. Pier-son	2 R.C. Bridges	25,156	4,624	29,780
1-14VC98	Imperial	198	A	Across San Felipe Creek & Overflow		4/ 1/50	Anderson Co.	R.C. Bridge & Approaches	98,076	14,542	112,618

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
11XC18	Imperial	201, 187	A, B, C	Bet. Jet. Rte. 26, 1.5 Mi. E. of Heber & 1.9 Mi. S. of Calipatria & Bet. 3.6 Mi. N. of Bond's Corner & Alamo	12.0	6/30/47	MacArthur & Son.	Repair with R.M.S.	\$80,578	\$2,764	\$83,342
0-11VC26	Imperial	201, 187	ABC, C	Bet. Rte. 26 & Calipatria & Bet. Curlew & Alamo	6.6	4/ 9/48	MacArthur & Son.	Resurf. with P.M.S.	80,310	4,223	84,533
1-11VC53	Imperial	201	B	Across Rockwood Canal, 2.5 Mi. S. of Brawley	0.4	1/12/50	Arthur A. Johnson	R.C. Bridge	25,392	7,737	33,129
14VC38	Imperial	202	A, B	Across New River & Gresson Wash.	0.16	10/20/47	G. W. Peterson	2 Conc. Brs. & Apps.	54,366	5,622	59,988
51-14VC5	Imperial	202	B	Across New River, 2 Mi. W. of Calexico	---	8/31/50	Anderson Co.	R.C. Bridge & Apps.	42,290	6,822	49,112
11X35	Imperial	202	C	Across Briar & Central Main Canals	---	12/ 9/46	Day Labor	Lengthen Central Canal Br. & Place Embankment Protection at Both Structures	8,750	12	8,762
1-11VC55	Imperial	202	C	Bet. Ash Canal & S. Alamo Canal	0.6	3/18/50	Hubbs Equipment Co.	Grade & R.M.S. on I.B.M.	22,776	4,605	27,381
11DC3	Imperial	FAS 649	---	Bet. N. of New River & W. of Calipatria	20.1	4/29/49	Hensler Const. Corp.	P.M.S.	426,390	55,500	*519,225
14DC61	Imperial	FAS 649	---	Across West Side Main & Sumac Canals	---	12/13/49	T. A. Kvale	Stl. Br. & R.C. Pipe Siphon	32,835	4,500	*37,335
52-11VC4	Imperial	Var	Var	Various Locations	46.0	5/22/51	Basich Bros. Const. Co., & N. L. Basich & R. L. Basich	P.M.S. Minor Contracts & D.L. Projects	470,361	60,000	*530,361
	Imperial			Various Locations					45,355	42	*45,397
51-9VC5	Inyo	23	B	At Aberdeen & Black Rock Curves	0.6	5/17/50	E. C. Young & Co.	Grade, R.M.S. on I.B.M. & Sl. Ct.	13,903	2,664	16,567
52-9VC2	Inyo	23	B, D	Bet. Division Cr. & Aberdeen & Bet. Keough Hot Springs & Steven's Corner	6.0	4/ 2/51	Verne MacArthur	B.S.T.	25,541	5,000	*30,541
52-9VC1	Inyo	23, 76	C, Bis	Bet. Rte. 63 & 1.3 Mi. N. & Bet. Main St. & W.C.L. of Bishop	1.8	4/ 2/51	G. W. Ellis Const. Co.	P.M.S. & Drainage Facilities	103,738	10,000	*113,738
1-9VC22	Inyo	23	D, Bis, E	At Bishop	0.4	6/14/49	Bishop Engineer & Const. Co.	Resurface	44,365	5,079	49,444
9VC6-F	Iny, Ker	23	G, E	See Kern County							
51-9VC1	Inyo	23	G	Bet. Little Lake & 3 Mi. N.	2.4	4/19/50	Halloran & Gill	Grade, R.M.S. on I.B.M. & Sl. Ct.	21,632	4,328	25,960

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
9VC11	Inyo	23	H, I	Bet. 2.0 Mi. S. & 10.7 Mi. S. of Olancha	0.4	1/21/48	Bishop Engr. & Const. Co.	Grade & B.S.T.	\$12,669	\$2,517	\$15,186
9VC10-F	Inyo	23	L, M	Bet. Alabama Gates & Manzanar	4.3	12/18/47	Basich Bros. Const. Co., Basich Bros. & O. B. Pierson	Grade, P.M.S. on C.R.B. & Std. Br.	223,217	27,224	250,441
1-9VC19	Inyo	23	L,M,A,D	Bet. Lone Pine & Bishop	18.1	5/ 6/49	Oilfields Trucking Co. & Phoenix Const. Co., Inc.	Surface Shldrs. with R.M.S.	55,459	6,788	62,247
9XC4	Inyo	76, 127	A, Bis, C	Bet. Rte. 23 & Mono Co. Line, in Bishop, Bet. W. City Limits & Rte. 23 & Bet. Rte. 23 & Keeler	3.2	5/16/47 9/18/47	Browne & Krull Bishop Engr. & Const. Co.	R.M.S. Fence	17,539 6,146	2,215 821	19,754 6,967
9RXC1 1-14VC85	Inyo	76	A A	Bet. Laws & Mono Co. Line Across Owens River & Lower McNally Canal	4/26/49	4/26/49	Jas. R. Mathews Excavating Co.	Std. Br., Conc. Br. & Apps.	45,148	5,086	50,234
52-9VC5	Inyo	76	B	Across Bishop Cr., 7.1 Mi. W. of Bishop	5/ 2/51	5/ 2/51	Conrad Const. Co.	Culv. & Apps.	14,387	2,700	*17,087
1-9VC27	Inyo	127	C, D	Bet. S.P.R.R. Xing. W. of Keeler & Soda Plant	5.4	11/ 9/49	Rice Brothers, Inc.	Grade & P.M.S. on L.B.M.	93,453	15,708	109,161
1-9VC24	Inyo	127	D	Bet. Soda Plant & 8 Mi. S.	7.1	7/12/49	R. A. Erwin	Grade & R.M.S.	82,123	16,301	98,424
9VC9	Inyo	127	N	At Shoshone	0.7	11/13/47	A. A. Edmonson	Grade & R.M.S.	26,455	5,198	31,653
9V26	Inyo	212	D, E	Bet. Shoshone & State Line	19.6	11/ 9/49	Day Labor	Improve Roadway	24,832	744	*25,576
9DC5	Inyo	FAS 1065		Bet. N. of Trona & Water Canyon	4.9	1/15/48	Swedlow Engr. Co., Inc.	Grade & B.S.T.	130,491	21,975	152,466
9DC8	Inyo	FAS 1065		Bet. N. of Trona & Wildrose Canyon	15.0	12/14/48	Arthur A. Johnson	Grade, I.B. & Pen. Tr.	88,212	14,337	102,549
9DC9	Inyo	FAS 1065		Bet. SW. End Wildrose Canyon & Death Valley	5.7	7/25/49	Diego, Inc. & Dix-Syl Const. Co., Inc.	Grade, & Pen. Tr.	36,764	7,682	44,446
52-9DC1-P	Inyo	FAS 1065		Bet. 11 Mi. N. of Trona & Death Valley Nat'l Monument	25.7	7/27/51	Verne MacArthur	R.M.S., C.T. & St. Ct.	62,786	4,500	*67,286
9DC6	Inyo	FAS 1068		Bet. Independence & Kearsarge	4.5	1/26/48	Brown & Krull	Grade, I.B., Pen. Tr., & Widen Std. Br.	47,121	6,853	53,974

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
9DC1	Inyo	FAS 1070		On Warm Springs Rd. & Poleta Rd. near Bishop	4.4	5/16/47	Basich Bros. Const. Co. & Basich Bros.	Grade, B.S.T. & 2 Timber Brs.	\$116,915	\$8,861	\$125,776
9DC4	Inyo	FAS 1071, 1069		On Pine Cr. Rd. & Glacier Lodge Rd.	4.2	9/22/47	Westbrook & Pope	Grade & Pen. Tr.	79,874	11,292	91,166
	Inyo			Various Locations				Minor Contracts & D.L. Projects	23,443		*23,443
6VC6	Kern	4	A	Bet. 1.6 Mi. & 1.25 Mi. S. of Grapevine Sta.		5/16/46	Griffith Co.	R.C. Traffic Deflectors	21,130	2,350	23,480
1-6VC33	Kern	4	A	Bet. Fort Tejon & N. of Grapevine	5.0	4/19/49	Hensler Const. Corp.	R.C. Traffic Deflectors	196,285	11,258	207,543
1-6VC38	Kern	4	A	Bet. Oak Glen & Grapevine Sta.	1.8	9/2/49	Griffith Co.	Resurface with P.M.S.	34,141	3,469	37,610
1-6VC43-F	Ker, L.A.	4	A, D, J	Bet. 2.9 Mi. S. of Rte. 99 & Fort Tejon	11.4	6/26/50	N. M. Ball Sons	Grade, P.M.S., P.C.C., & R.C. Br.	1,756,486	196,000	*1,952,486
51-7VC43	Ker, Ven, L.A.	4, 2	A,F,A,D,J	See Los Angeles County							
0-6VC17	Kern	4, 140	B, C, B	Bet. Grapevine & Switzers & Bet. Mi. 6.74 & Rte. 4	29.8	4/10/48	Dico, Inc. & Dix-Syl Const. Co., Inc.	Grade & P.M.S.	377,334	21,672	399,006
6V41	Kern	4, 140	BC, B	Bet. Grapevine & Switzers & Bet. Mi. 6.74 & Rte. 4	29.8	7/12/48	Day Labor	Stripe & Shldr.	11,436		11,436
0-6VC36	Kern	4	B, C	Bet. Grapevine Sta. & Switzers	19.1	6/22/49	Griffith Co.	P.M.S. Borders	36,225	2,732	*38,957
6VC5	Kern	4	C, Bkd	Bet. Brundage Lane & 24th St.	1.9	4/22/46	Griffith Co.	Grade, P.C.C. & A.C.	435,612	48,101	483,713
6VC11-FP	Kern	4	C, Bkd	Bet. Brundage Lane & 21st St.		10/23/46	Offield Electric Co.	Signals	42,581	4,971	47,552
0-6VC20	Kern	4	C	Bet. Hoskins Rd. & Brundage Lane	5.1	5/19/48	Griffith Co.	Grade, P.C.C. & P.M.S.	763,677	67,383	831,060
0-6VC24	Kern	4	C	At S. Chester Ave. & Strader Grade Xing.		6/28/48	L. H. Leonard Elc. Const. Co.	Signals & Lights	11,189	1,168	12,357
1-6VC42	Kern	4	C	Bet. 0.6 Mi. S. of McKittrick Rd. & Hoskins Rd.	5.6	5/5/50	N. M. Ball Sons	Grade & P.C.C.	827,500	85,000	*912,500
1-6VC44	Kern	4	C	At Panama Rd. & Houghion Rd.	5/24/50		Clinton Elc. Corp.	Signals & Lights	14,734	2,200	*16,934
6VC7	Kern	4	D, E	Bet. Standard Oil Tank Farm & Cawelo		5/7/46	Geo. Von Kleinsmid	Barrier Posts	7,098	2,800	9,898
0-6VC28	Kern	4	D, E	Bet. Snow Rd. & Cawelo	4.2	8/5/48	C. J. B. Const. Co.	Conc. Barrier Posts	11,770	1,369	13,139
1-6VC30	Kern	4	D, E	Bet. Snow Rd. & Cawelo	7.6	4/1/49	Peter Kiewit Sons' Co.	Resurface with P.M.S.	107,868	9,919	117,777
6VC10-F	Kern	4	E	Bet. Cawelo & Famoso Underpass	6.7	10/17/46	Griffith Co.	Grade & P.C.C.	517,023	53,332	570,355
6VC18	Kern	4	E	Bet. Cawelo & Famoso Underpass	6.4	4/19/48	E. G. Perham	Barrier Posts	20,562	2,827	23,379
1-6VC45-F	Kern	4	E, F	Bet. Famoso UP. & McFarland	5.8	6/22/50	Griffith Co.	Grade, P.C.C., R.C. Br. & Cattle-pass	702,869	89,000	*791,869

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
6VC8	Kern	4	F, Dln	Bet. Famoso & Cecil Ave. in Delano.	10.4	5/27/46	Griffith Co.	Repair with P.M.S.	\$93,215	\$8,478	\$101,693
6VC25	Kern	4	G, D	Bet. Minkler UP. & Snow Rd.	1.4	6/28/48	Disco, Inc. & Dix-Styl Const. Co., Inc.	Resurface with P.M.S.	14,324	1,178	15,502
6VC13-FP	Kern	4, 141	Bkd, G, D, A	Bet. Bakersfield & Snow Rd. & Bet. Calloway Canal & Rte. 4	3.6	6/ 9/47	Griffith Co.	Grade, P.C., P.M.S., 4 R.C. & 2 S.I. P.C.	1,270,492	125,707	1,405,199
1-6VC37	Kern	4	Bkd	Bet. 234 St. & H St. N. of Gares Circle	1.0	8/10/49	Griffith Co.	Grade & P.C.C.	330,286	39,000	*375,286
1-6VC40	Kern	4	Bkd	Bet. 21st St. & H St.	10/ 4/49	10/ 4/49	Eis-Hokin & Galvan	Signals & Lights	42,080	3,300	*45,380
52-6VC1	Kern	4	Dln	Bet. Jet. of Rte. 136 & Tulare Co. Line	1.0	4/ 2/51	Griffith Co.	P.M.S.	22,585	3,500	*26,085
51-6VC12-P	Kern	4	Dln	At 11th Ave. in Delano	1.0	4/13/51	Fischbach & Moore, Inc.	Signals & Lights	13,454	1,700	*15,154
0-9VC16	Kern	23	A	In Mojave	---	2/21/49	G & H Paving Co.	Railing	6,421	1,268	7,689
51-9VC6	Kern	23	A, C, D	Bet. Los Angeles Co. Line & Freeman Jet.	23.2	5/17/50	G. W. Ellis Const. Co.	P.M.S. & S.I. Ct.	143,714	13,627	157,341
1-9VC21	Kern	23	B	Bet. Mojave & 0.8 Mi. N.	0.8	6/ 2/49	Davis & Swartz	Grade & R.M.S. on I.B.M.	37,809	8,332	46,141
0-9VC13	Kern	23	C	Bet. Ittners & Ricardo.	2.4	5/12/48	Westbrook & Pope	Grade & S.I. Ct.	38,198	5,867	44,065
0-9VC17	Kern	23	C	Bet. Ittners & Ricardo.	0.4	3/ 2/49	Peterson Const. Co.	Embankment Protection	20,219	3,108	23,327
9VC4-F	Kern	23	D	Across Freeman Gulch	---	2/19/46	E. W. Elliott Const. Co.	S.I. Br. & Apps.	77,962	14,815	92,777
9VC6-F	Ker, Iny.	23	E, G	Bet. Indian Wells & Little Lake.	2.7	4/21/47	Basich Bros. Const. Co. & Basich Bros.	Grade, P.M.S. & S.I. Br.	203,937	19,477	223,414
6X14	Kern	33	B	Bet. Blackwells Corner & Harts Sta.	---	3/21/46	Day Labor	Restore Borders	16,996	25	17,021
6XC7	Kern	33	C	Bet. Lost Hills & Wasco	4.7	4/ 5/46	Oilfields Trucking Co. & Phoenix Const. Co.	Widen Shldr.	25,813	4,198	30,011
6XC8	Kern	33	C	Bet. 8.7 Mi. & 2.0 Mi. W. of Wasco	6.7	6/24/46	Griffith Co.	Repair with P.M.S. & S.I. Ct.	54,324	7,000	61,324
6XC13-P	Ker, Tul.	33, 4	D, A	See Tulare County	---	---	---	---	---	---	---
6X21	Kern	57	A	Bet. South Boundary & Maricopa	2.4	3/20/47	Day Labor	Resurface	17,233	250	17,483
51-6VC1	Kern	57	B	Bet. 9 Mi. & 2 Mi. W. of San Emidio Rd.	4.0	4/ 1/50	Rand Const. Co., Inc.	R.M.S. on U.R.B.	32,809	8,800	*41,609
6X25	Kern	57	C	Across Teuya Creek	---	5/ 1/47	Day Labor	Multi Plate Arch Culv.	9,798	152	9,950

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
6XC15	Kern	57	E	Bet. 0.4 Mi. W. of Cottonwood Cr. & Cottonwood Cr.	0.4	6/17/47	James E. Anderson	Starify & Suboil	\$3,685	\$700	\$4,385
52-6VC3	Kern	57	E	In E. Bakersfield, at Infrs. of Miles St. & Mt. Vernon Ave.	9/25/51	9/25/51	Westates Ele. Const. Co.	Signals & Lights	13,228	1,900	*15,128
51-6BC1-F	Kern	57	F, G	Bet. S. Boundary Sequoia Nat'l Forest & 2.5 Mi. SW. of Democrat Springs	5.3	6/23/51	Norman I. Fadel	Grade & B.S.T.	115,146	-----	*115,146
51-6VC6	Kern	57	H	Bet. Democrat Springs & Bodfish	15.5	10/23/50	Dimmitt & Taylor and T. M. Page	Widen, B.S.T. & R.C. Br.	387,661	58,000	*445,661
6VC16-Y	Kern	57	I	Bet. 2 Mi. S. of Isabella & Isabella	2.0	3/11/48	Munn & Perkins & Mathew & Jorgenson	Grade, B.S.T. & Std. Bridge	147,089	20,068	167,157
6V40	Kern	57	I	Across Bodfish Creek	7/1/48	7/1/48	Day Labor	Culvert	9,985	138	10,123
52-9VC4	Kern	57	J	Bet. Weldon & Bloomfield Ranch (portions)	4.0	4/25/51	Oilfields Trucking Co. & Phoenix Const. Co., Inc.	B.S.T. & R.M.S.	29,321	5,500	*34,821
0-14VC63	Kern	57	K	Across Canebrake Cr.	8/18/48	8/18/48	Bishop Engr. & Const. Co.	R.C. Bridge & Apps.	15,633	3,771	19,404
1-9VC26	Kern	57	K	Bet. Chimney Cr. & Walker Pass	10/4/49	10/4/49	Miles & Bailey	Grade, B.S.T. & R.M.S.	46,386	9,142	55,528
1-6VVVC3-P	Kern	57, 58	Bkd	At Infrs. Baker & Summer Sts.	12/2/49	12/2/49	Westates Elel. Const. Co.	Signals	8,916	1,016	9,932
9VC5-F	Kern	58	A	Bet. 12 Mi. E. of Mojave & Muroc Jet.	5.0	1/28/47	Basich Bros. Const. Co. & Basich Bros.	Grade & P.M.S.	148,886	14,414	163,300
0-9VC15	Kern	58	A, B	Bet. Mojave & SBD. Co. Line.	11.5	8/23/48	Oilfields Trucking Co. & Phoenix Const. Co.	Grade & P.M.S.	149,695	17,245	166,940
0-9VC23	Kern	58	A, B	Bet. Mojave & SBD. Co. Line.	11.5	6/25/49	G & H Paving Co.	Seal Coat	14,766	1,059	15,825
9VC8	Kern	58	B	Bet. Muroc Jet. & 6.5 Mi. E.	6.5	5/7/47	Basich Bros. Const. Co. & Basich Bros.	Repair with R.M.S.	31,114	1,907	33,021
14VC39	Kern	58	D	Across Walker Basin Cr. & Caliente Cr.	11/20/47	11/20/47	N. M. Saliba Co.	Radeck 3 Timber Brs.	26,720	2,408	29,128
52-6VC2	Kern	58	D	Bet. 4.4 Mi. E. of Silver & 2 Mi. W. of Bear Mountain Ranch	7.1	4/2/51	Oilfields Trucking Co. & Phoenix Const. Co., Inc.	P.M.S.	151,876	20,500	*172,376
6XC11-F	Kern	58	E, F, Thpi	Bet. Keene & Tehachapi	10.2	12/31/46	Guy F. Atkinson Co.	Grade, B.S.T. & Std. & Conc. Brs.	1,142,467	89,173	1,231,640
14XC23-F	Kern	58	E, F	Bet. Keene & Tehachapi	-----	8/15/47	Guy F. Atkinson Co.	Superstructures 2, Std. Brs.	396,645	17,248	413,893

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
0-6VC29	Kern	58	F	1/4 Mi. E. of Tehachapi	0.2	9/ 8/48	Oilfields Trucking Co. & Phoenix Const. Co.	Grade & Culv.	\$17,353	\$2,472	\$19,825
14XC8	Kern	58	G	Across Cache Cr. & Los Angeles Aqueduct		12/11/45	E. W. Elliott Const. Co.	Std. & R.C. Brs.	90,355	11,862	102,217
6VC19	Kern	58	G	1/2 Mi. E. of Monolith	0.2	4/19/48	Oilfields Trucking Co. & Phoenix Const. Co.	Grade, B.S.T. & P.M.S.	18,698	3,000	21,698
14VC40	Kern	58	K	Across Main Drainage Canal		12/11/47	E. G. Perham	R.C. Bridge	22,452	4,186	26,638
1-14VC81	Kern	58	K	Across Jerry Slough		4/ 1/49	W. E. Thomas Const. Co.	R.C. Br. & 2 Culvs.	13,279	5,025	18,304
52-14VC5	Kern	58	K	Across E. Side Canal, 0.8 Mi. E. of Button-willow		9/25/51	Thomas Const. Co.	R.C. Br. & P.M.S. on U.R.B. on Apprs.	22,475	3,200	*25,675
6XC16	Kern	58	L	On Oak St. at Bakersfield		6/30/47	Reveroth & Reveroth	Remove Girder Br.	12,220	462	12,682
6XC9-F	Kern	129	A	Bet. Rte. 4 & 5 Mi. N.	5.1	10/14/46	Geo. F. Frances	Grade & R.M.S.	159,498	26,848	186,346
6XC10-F	Kern, Tul.	129	AB, A	Bet. Puso Cr. & Ducor	18.3	12/23/46	Rand Const. Co.	Grade & B.S.T.	295,502	40,309	335,811
14VC57	Kern	129	A	Across Puso Creek		6/13/48	F. Freidenburg	R.C. Bridge	97,378	9,437	106,815
0-6VC23	Kern, Tul.	129	AB, A	Bet. Puso Creek & Ducor	23.9	6/23/48	Clyde W. Wood, Inc.	Seal Coat	22,017	2,927	24,944
0-14VC62	Kern	139,	A, A	Across Kern Riv. & Buena Vista Cr.		8/ 3/48	Thomas Const. Co.	Culv. & Redeck Br.	26,491	4,397	30,888
51-14BC1-F	Kern	140	A	Across Goose Lake Slough		8/ 9/51	Tumblin Co.	R.C. Br. & Apprs.	43,658		*43,658
0-6VC26	Kern	140	C	Bet. Derby St. & W. of Meyer St.	0.6	8/ 3/48	Griffith Co.	B.S.T.	35,494	3,868	39,362
1-6VC34	Kern	140	D	Across Hill Creek		5/ 6/49	Anderson Co.	Cattlepass	5,400	1,190	6,590
51-6VC11	Kern	141	A	On Brundage Lane		12/15/50	E. G. Perham	Extend 2 R.C. Culvs.	26,122	3,124	29,246
1-6VMC2-P	Kern	141	Bkd	At Brundage Lane & S. Chester Ave.		9/16/49	Westates Eld. Const. Co.	Signals & Lights	10,466		10,466
1-6VC32	Kern	142	A	Across Cow Creek	0.1	4/ 1/49	Thomas Const. Co.	Culv. & Apprs.	8,296	1,717	10,013
1-6VMC2	Kern	142	A	Ints. Rte. 142 & Roberts Lane (Olddale)		7/27/49	Clinton Elec. Corp.	Signals & Lights	11,000	1,590	12,590
0-14VC61	Kern	142	B	Across Granite Canyon		7/17/48	Anderson Co.	R.C. Bridge & Apprs.	43,313	7,242	50,555
51-6VC4	Kern	142	C	Across Howling Gulch	0.1	10/ 5/50	Rand Const. Co., Inc.	Replace Br. with Met. Pl. Arch Culv.	6,173	1,200	7,373
51-6VC2-Y	Kern	142	F	Bet. Isabella Dam Site & Rte. 17	1.3	7/26/50	Div-Syl Const. Co., Inc.	Grade, B.S.T. on I.B.M., & R.C. & Std. Br.	228,279	41,500	*269,779

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
1-6VVC5-P	Kern	142	Bk'd. A	At 34th St.	---	5/22/50	L. H. Leonardi Electric Const. Co.	Signals & Lights.	\$12,717	\$1,573	\$14,290
1-9VC25	Kern	145	A	Bet. Randburg Rd. & Starles Sta. Rd.	2.3	8/ 2/49	Clyde C. Wood, Inc.	Grade & R.M.S.	33,348	5,696	39,044
51-9VC4	Kern	145	A, B	Bet. Starles Rd. & Rademacher	3.3	5/11/50	E. C. Young & Co.	Grade, R.M.S. on I.B.M. & S.L. Ck.	33,287	7,408	40,645
52-9VC7	Kern	145	A	Bet. 1.7 Mi. & 7.2 Mi. N. of Randburg Jct.	4.9	7/24/51	E. C. Young	Grade & R.M.S. on I.B.	75,048	11,000	*86,048
1-9VC18	Kern	212	A	Bet. Naval Ord. Sta. & Sbd. Co. Line	4.0	4/23/49	Rand Const. Co., Inc.	R.M.S.	22,788	4,126	26,914
51-6DC6-P	Kern	FAS 574	---	Bet. David Rd. & Wheeler Ridge.	6.9	1/11/51	Oilfields Trucking Co. & Phoenix Const. Co., Inc.	P.M.S.	88,467	3,297	91,764
14DC18	Kern	FAS 575	---	Across Kern River	---	5/28/47	O. B. Pierson	R.C. Bridge	82,089	1,087	83,176
6DC22	Kern	FAS 575	---	Bet. Union Ave. & Fairfax Road	4.0	2/23/50	Oilfields Trucking Co. & Phoenix Const. Co., Inc.	Grade, I.B., U.R.B., B.S.T. & P.M.S.	134,614	19,672	154,286
51-14DC2-P	Kern	FAS 881	---	Across Beardsley Canal & at Beardsley School.	---	11/ 8/50	Griffith Co.	R.C. Br. & R.C. Ped. U.C.	40,593	5,500	*46,093
6DC2	Kern	FAS 884	---	On Comanche Dr., Bet. State Hwy. Rte. 58 & 3.3 Mi. S'ly.	3.3	5/ 1/47	Rexroth & Rexroth.	Grade & B.S.T.	34,962	1,008	35,970
14DC75-P	Kern	FAS 886	---	Across Kern Riv. at Gordon's Ferry	---	11/10/50	Madonna Const. Co.	R.C. Bridge	78,027	5,381	*83,408
6DC15	Kern	FAS 887	---	Bet. Rte. 142 to Rte. 4	2.8	10/28/48	Griffith Co.	Grade, P.M.S. & B.S.T.	157,447	18,213	175,660
6DC4	Kern	FAS 889	---	Bet. Wasco & Elmo Hwy.	6.1	6/ 4/47	Rand Const. Co.	Grade & B.S.T.	156,195	7,112	163,307
6DC13	Kern	FAS 889	---	Bet. Elmo Hwy. & Tulare Co. Line	7.2	9/24/48	Louis Biasotti & Son	Grade & B.S.T.	150,509	8,791	159,300
6DC10	Kern	FAS 895	---	Bet. Rte. 33 & Lerdo Hwy.	8.4	5/27/48	Geo. E. France, Inc.	Grade, Pen. Tr. & I.B.	224,230	7,774	231,504
52-6DC1	Kern	FAS 895	---	On Main Drain Rd., Bet. Lerdo Hwy. & Bakersfield-McKittrick Hwy.	9.4	7/19/51	Covina Const. Co.	Grade & Pen. Tr.	265,755	35,100	*330,855
---	Kern	---	---	Various Locations.	---	---	---	Minor Contracts & D.L. Projects	102,437	1,448	*103,885

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
1-6TTC1	Kings	10, 135	Han, A, A	Jet. Rte. 10 & 135 at E.C.L. of Hanford		2/10/50	Westates Ele. Const. Co.	Signals & Lights	\$8,714	\$1,350	*\$10,064
1-6TTC17	Kings	125	C	Bet. Kettleman City & 5th Standard	5.3	5/ 6/49	Gene Richards	B.S.T.	92,337	31,299	123,636
51-6TTC1	Kings	125	C	Parallel Bet. 0.2 & 5.2 Mi. N. of Kettleman City	5.0	4/ 1/50	Westbrook & Pope	Grade B.S.T. on I.B. & I.B.M. & Sl. Ct.	104,876	17,452	122,328
6WC4	Kings	125	D	Bet. Fifth Std. Parallel & 1.5 Mi. N.	1.5	1/21/46	W. C. Railing	Grade & R.M.S.	65,617	10,509	76,126
0-6TTC14	Kings	125	D	Bet. Stratford & 1 Mi. N.	1.9	7/27/48	Oilfields Trucking Co. & Phoenix Const. Co., Inc.	Grade, R.M.S. & R.C. Bridge	193,477	41,900	235,377
6DC13	Kings	FAS		Bet. Kings Riv. & Fresno Co. Line	0.7	8/19/48	Anderson Co.	P.M.S. on I.B. & C.R.B.	40,526	809	41,335
51-6DC4-P	Kings	568 FAS 568, 623, 820		On 10th Ave. Bet. 7th St. & Grangeville Bldg. & on Laton Hwy. Bet. Last Chance Ditch & Kings Riv.	2.9	12/ 9/50	Ted F. Baum	Grade & P.M.S.	89,699	2,347	92,046
51-14DC6-P	Kings	FAS 568		Across Kings Riv.		12/22/50	Chas. S. Moore & Robert R. Murdock	R.C. Bridge	65,311	688	65,999
14DC12	Kin, Fre	FAS 623		Across Kings River near Hardwick		5/ 1/47	Klay Bennett Const. Co.	R.C. Bridge	129,033	1,930	131,013
14DC73-P	Kings	FAS 940		Across Kings River		6/28/50	W. E. Thomas Const. Co.	R.C. Bridge	33,147	653	33,800
6DC7	Kings	FAS 943		Bet. Corcoran & 5.3 Mi. S.	5.3	11/13/47	C. M. Syar	Grade, C.R.B. & P.M.S.	137,055	5,457	142,512
	Kings			Various Locations				Minor Contracts & D.L. Projects	23,893	485	*24,378
51-1TTC6	Lake	15	A	Bet. 0.4 Mi. W. & 0.7 Mi. E. of Tule Lake	1.4	4/19/50	M. W. Brown	Grade & R.M.S. on C.T.B.	199,397	35,700	*235,097
0-14TTC43	Lake	15	B	2.6 Mi. E. of Upper Lake		5/27/48	C. C. Gildersleeve	R.C. Catlepass	5,880	734	6,614
1WLC6	Lak, Nap	49	A, A	See Napa County							
0-1TTC21	Lake	49	B	Across Coyote Cr. About 6 Mi. N. of Middletown	0.5	3/ 2/48	Harold Smith	Conc. Br. & Apps.	63,385	10,763	74,148
1-1TTC32	Lake	49	B	Bet. 1.3 & 5.9 Mi. N. of Putah Creek	1.4	4/ 1/49	Chittenden & Chittenden	Grade I.B.M. & Sl. Ct.	131,965	20,158	*152,123

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
1W28	Lake	49	C	Across Burns Valley & Molesworth Creeks		9/19/46	Day Labor	Replace Timber Brs.	\$7,871	\$38	\$7,909
14TC41	Lake	49	C	Across Burns Valley Creek		4/21/48	C. C. Gildersleeve	Repair Timber Br.	4,893	787	5,680
52-14TC9-F	Lake	49	C	Across Siegler & Cache Crs.		6/28/51	Tumblin Co.	R. C. Brs. & Apps.	135,471	17,000	*152,471
14WLC49	Lake	89	B, C	Across Kelsey Cr. at Cobb		4/24/47	Arthur B. Siri	Conc. Br. & Apps.	33,838	4,454	38,292
1T64	Lake	89	B, C, D	Bet. Middletown & Kelsey		7/1/48	Day Labor	Grade & Surface	52,610	8,368	60,978
1-1TC38	Lake	89	B	Bet. 5.4 & 6.0 Mi. N. of Middletown	0.6	7/7/49	Arthur B. Siri, Inc.	Grade & P.M.S.	54,121	9,215	63,336
14WLC36-F	Lake	89	D	Across Kelsey Cr. at Kelseyville		7/19/46	A. Soda & Son	Std. Br. & Apps.	210,083	16,986	227,069
1WC10	Lake	89	E	Bet. 1.2 Mi. N. of Redman Narrows & Rte. 15		3/26/46	Louis Biasotti & Son	Grade & P.M.S.	155,480	23,540	179,020
14WLC30-F	Lake	89	E	Across Robinson Cr. & Scott Cr.	2.0	5/7/46	Kiss Crane Co.	Conc. Br. Std. Br.	144,290	14,687	158,977
1W30	Lake	89	E	Bet. N. of Redman Narrows Rd. & Rte. 15	2.0	2/20/47	Day Labor	Seal Coat	4,654		4,654
1DC5	Lake	FAS		Bet. Rte. 89 & 1 Mi. W. of Lower Lake	5.1	8/13/47	Morrison-Knudsen Co.	Grade I.B. & Sl. Ct.	115,477	15,607	131,084
1DC6	Lake	1039		Bet. 1.0 Mi. & 2.1 Mi. E. of Rte. 89	1.1	11/29/47	George Stout	I.B. & Sl. Ct.	29,978	3,377	33,355
52-1DC1-P	Lake	FAS		Bet. 7.0 Mi. & 3.5 Mi. W. of Lower Lake	3.5	7/17/51	Harold Hastings	Grade & Drainage Facilities	20,351	2,860	23,211
	Lake	1039		Various Locations				Minor Contracts & D.L. Projects	29,247	600	*29,847
2TC8	Las. Sha.	28	A, B, E	See Shasta County	3.2	6/3/47	Day Labor	P.M.S.	12,391	76	12,467
2T46	Lassen	28	B	Bet. Bieber & Modoc Co. Line							
2TC20	Las. Plu.	29	A, A	See Plumas County							
0-2TC24	Lassen	29	B	Bet. Fredonyer Pass & Susan River	6.3	4/9/48	Sheldon Oil Co.	P.M.S. on C.R.B.	80,358	7,646	94,004
2WLC1	Lassen	29	C	At Baxter Cr. N. of Janesville	1.1	8/21/47	Fredrickson & Watson Const. Co.	Grade, R.M.S. on C.T.B. & Conc. Br.	101,747	9,629	111,376
2WC4	Lassen	29	D	Bet. 1.5 Mi. W. of Bird Flat & Doyle	7.5	1/17/46	The Utah Const. Co.	Grade & P.M.S.	237,117	26,413	263,530
2WC6	Lassen	29	D	Bet. 2 Mi. N. of Milford & Bird Flat	12.4	4/9/47	Clements & Co.	P.M.S.	130,162	12,387	142,549
52-2TC1	Lassen	73, 29	A, E	Bet. Doyle & Constanitia		4/2/51	Harms Bros.	Replace 6 Brs. with R.C. Culvs. & 2 Cattlepasses with C.M.P.	76,748	15,900	*92,648

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
2WC5	Lassen	73	B	Bet. Viewland & Secret Valley	13.8	4/16/46	E. B. Bishop	Gravel Base & P.M.S.	\$122,258	\$9,615	\$131,873
2T74	Lassen	73	D	Bet. Litchfield & Ravendale	3.0	12/14/48	Day Labor	Grade & P.M.S.	53,929	53,929	53,929
2W37	Lassen	73	E, F, G	Bet. Horse Lake Rd. & Modoc Co. Line	5.2	12/10/46	Day Labor	Resurface	31,934	560	32,494
2WC2	Las. Mod.	73, 28 210	Var	Bet. Horse Lake Rd. & Lakeview Jet. & Bet. Alturas & Stronghold	80	4/20/45	A. A. Tieslan & Son	P.M. B.M. & Sl. Ct.	134,589	9,622	144,211
2DC7	Lassen	FAS 988		Bet. Susanville & N. of Willow Cr. Valley	17.6	7/21/47	A. Teichert & Son, Inc.	Grade & R.M.S.	301,799	31,415	333,214
2DC9-P	Las. Mod.	FAS 988		Bet. Hayden Hill Rd. & Rte. 28	13.1	7/27/48	Harms Bros. & M. W. Brown	Grade C.R.B. & Sl. Ct.	902,450	12,037	914,487
51-2DC2-Y	Lassen	FAS 988		Bet. Slate Cr. & Grasshopper Valley Ranch	1.8	2/14/51	W. H. O'Hair Co.	Grade & R.M.S. on Gravel Base	41,897	5,540	*47,437
	Lassen			Various Locations				Minor Contracts & D.L. Projects	11,625		*11,625
0-7VC89-F	Los Angeles	2	C	Through Malibu Jet.	3.2	8/25/48	Peter Kiewit Sons' Co.	Grade, P.M.S. & 3 R.C. Brs.	644,498	70,000	*714,498
0-7RVC1	Los Angeles	2	C	About 1.2 Mi. E. of Ventura Co. Line		12/28/48	Thomas Const. Co.	R.C. Cattlepass	10,645	1,500	*12,145
1-7VC135-F	Los Angeles	2	C	Bet. 1.5 Mi. W. of Calabasas & 1.6 Mi. E. of Malibu	4.5	12/14/49	Basich Bros. Const. Co. & Basich Bros.	Grade, P.M.S. on U.R.B. & R.C. Br.	800,175	95,200	*895,375
51-7VC13-F	L.A. Ven.	2	C, A	Bet. 0.2 Mi. E. of Ventura Co. Line & 1 Mi. W. of Moorpark Rd.	7.1	8/30/50	Fredericksen & Kasler	Grade, I.S.M., U.R.B. & P.M.S.	843,951	87,500	*931,451
7V181	L.A., Ven.	2	C, A	Moorpark Dr.	7.1	1/10/52	Day Labor	Signs, Stripe, & Markings	5,916		*5,916
7VC39	Los Angeles	2	D, Mtbl	Bet. Goodrich Blvd. & Concourse Ave.		6/18/47	Econolite Corp.	Signals	32,370	1,321	33,691
7VC47	Los Angeles	2, 168	D, C	Various Locations		10/24/47	Econolite Corp.	Signals & Lights	58,390	1,486	59,876
7VC50	Los Angeles	2, 2	D, Wit	At Whittier Blvd., Painter Ave., & Redman Ave.		11/26/47	Ele. & Mach. Serv., Inc.	Signals	31,621	1,210	32,831
1-7VVC16	Los Angeles	2, 77, 166, 174	D, Alh, A, B	Various Locations		10/15/49	Westates Ele. Const. Co.	Signals & Lights	21,290	1,950	23,240
14VC11	Los Angeles	2	L.A.	At Fourth St.		1/5/46	Byerts & Dunn	R.C. Overcrossing	130,354	14,573	144,927
14VC8	Los Angeles	2	L.A.	At Seventh St.		1/11/46	Byerts & Dunn	R.C. Overcrossing	247,667	23,066	270,733
7VC16	Los Angeles	2	L.A.	Bet. Kearney & Soto Sts		1/14/46	Peter Kiewit Sons' Co.	Grade, P.C.C. & A.C.	1,376,339	118,769	1,495,108

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
14VC10-F	Los Angeles	2	L.A.	At Benton Way	-----	2/ 4/46	Byerts & Dunn	R.C. Overcrossing	\$147,552	\$21,901	*\$169,453
14VC9	Los Angeles	2	L.A.	Santa Ana Freeway over Ramp 4 of Ramona Freeway	-----	3/29/46	Contracting Engrs. Co.	2 R.C. Sep. Struct. & Ret. Walls	132,255	16,566	148,801
7VC21	Los Angeles	2	L.A.	On & Adjacent to Santa Ana Freeway Bet. Soto St. & Indiana St.	-----	7/15/46	Mike Radich & Co.	Grade, Storm Drain & Sanitary Sewer	375,885	26,733	402,618
14VC15	Los Angeles	2	L.A.	On Santa Ana Freeway at First St.	-----	7/19/46	Haddock Co.	R.C. Undercrossing	175,255	7,290	182,545
14VC14	Los Angeles	2	L.A.	At Boyle Ave.	-----	7/25/46	Peter Kiewit Sons' Co.	R.C. Overcrossing	202,616	13,460	216,076
7VC24-FP	Los Angeles	2	L.A.	Bet. Diamond St. & Sunset Blvd.	-----	10/24/46	Chas. T. Brown	Storm Drain & Sanitary Sewer	185,878	12,823	*198,701
14VC20-F	Los Angeles	2	L.A.	At Silver Lake Blvd.	-----	11/14/46	Guy F. Atkinson Co.	R.C. Undercrossing	425,883	35,153	*461,036
14VC22-F	Los Angeles	2	L.A.	At Grand Ave.	-----	12/ 9/46	Oberg Bros.	R.C. Overcrossing	229,000	19,497	*248,497
14VC23	Los Angeles	2	L.A.	At Lorena St.	-----	12/11/46	W. J. Disteli	R.C. Overcrossing	140,261	11,207	*151,468
14VC24	Los Angeles	2	L.A.	At Olympic Freeway	-----	12/30/46	Haddock Co.	R.C. Undercrossing	300,598	19,360	*319,958
14VC25	Los Angeles	2	L.A.	At Esplanza St. & Indiana St.	-----	12/31/46	Haddock Co.	R.C. Undercrossing	229,673	19,769	*249,442
7VC28	Los Angeles	2	L.A.	Bet. Kearney & Soto Sts.	-----	2/ 4/47	Jannoch Nurseries	Landscape	86,003	6,088	*92,091
14VC28	Los Angeles	2	L.A.	At Soto St.	-----	3/ 6/47	Oberg Bros.	R.C. Underpass	181,108	13,679	*194,788
14VC28	Los Angeles	2	L.A.	At Enclid Ave. & Marietta St.	-----	4/29/47	Spencer Webb Co.	2 R.C. Undercrossings	254,498	18,891	*273,389
7VC37	Los Angeles	2	L.A.	Bet. Aliso & Kearney Sts.	-----	5/13/47	Vito Kovacevich	Grade, P.C.C. & A.C.	185,116	20,670	*205,786
7VC35-FP	Los Angeles	2	L.A.	Bet. Vineland Ave. & Barham Blvd.	1.8	5/28/47	Peter Kiewit Sons' Co.	Grade, P.C.C., A.C. & R.C. Sep. Struct.	1,616,574	118,537	1,735,111
14VC32-FP	Los Angeles	2, 165	L.A.	At Jet, Hollywood, Arroyo-Seco & Harbor Freeways	-----	6/24/47	James I. Barnes Const. Co.	4-Level R.C. Grade Sep. Struct.	1,088,591	115,065	*1,183,656
7VC44	Los Angeles	2	L.A.	Bet. Aliso St. & Kearney St.	-----	7/11/47	Jannoch Nurseries	Landscape	9,050	2,036	*11,086
14VC37-F	Los Angeles	2	L.A.	On Hollywood Freeway at Alvarado St.	-----	10/30/47	Guy F. Atkinson Co.	R.C. Undercrossing	339,108	23,543	*362,651
7VC40-F	Los Angeles	2	L.A., C	Bet. Calabasas & 1.5 Mi. W.ly.	2.2	11/17/47	Spicer Co.	Grade & P.M.S.	330,753	38,900	*369,653
14VC44-F	Los Angeles	2	L.A.	At Virgil Ave., Hoover St., & Rosemont Ave.	-----	1/20/48	Spencer Webb Co.	2 R.C. Undercrossings & 1 R.C. OC.	586,267	41,000	*607,267
7VC59-F	Los Angeles	2	L.A., D	Bet. Soto St. & Eastman Ave.	2.0	2/13/48	Griffith Co.	Grade & P.C.C. & A.C.	1,062,852	80,061	1,142,913
14VC49-F	Los Angeles	2	L.A.	On Hollywood Freeway at Figueroa St.	-----	2/27/48	Carlo Bongiovanni	4 R.C. Undercrossings & 2 R.C. Overcrossings	998,629	60,882	*1,059,511
7VC73	Los Angeles	2	L.A.	Bet. E. Edgeware Rd. & 0.05 Mi. E'ly	0.05	4/22/48	McClain Const. Co.	Ramp Grade Sep. Structs.	14,805	2,083	*16,888
14VC33-F	Los Angeles	2	L.A.	At Vendome St. & Coronado St.	-----	4/26/48	Chas. MacGlosky Co.	Grade & P.C.C.	320,169	30,800	*350,969
0-14VC34-F	Los Angeles	2	L.A.	At Bonnie Brae St. & Beaudry Ave.	-----	5/14/48	J. E. Haddock, Ltd.	2 R.C. Undercrossings & Undercrossing	416,214	36,000	*452,214
7VC82	Los Angeles	2	L.A.	Bet. Vineland Ave. & Barham Blvd.	-----	6/29/48	Tri-Cities Elec. Serv.	Lights	39,668	1,528	*41,196
0-14VC94-F	Los Angeles	2	L.A.	On Hollywood Freeway at Spring Street	-----	8/23/48	Oberg Bros. Const. Co.	R.C. Overcrossing	207,908	12,717	*220,625
0-14VC85-FP	Los Angeles	2	L.A.	At Melrose & Vermont Aves.	-----	9/ 2/48	Spencer Webb Co.	Conc. O.C. & Undercrossing	948,005	51,000	*999,005
0-14VC91	Los Angeles	2	L.A., D	Bet. Aliso St. & Eastman Ave.	-----	9/27/48	Elc. & Mach. Serv., Inc.	Lights	116,968	3,805	*120,773
0-14VC75	Los Angeles	2	L.A.	At Santa Monica Blvd. & Normandie Ave.	-----	11/16/48	J. E. Haddock, Ltd.	2 R.C. OC. & Apps.	574,555	44,118	*618,653
0-14VC85	Los Angeles	2	L.A.	Bet. Vineland Ave. & Barham Blvd.	-----	11/19/48	Henry C. Soto Corp.	Landscape	25,521	2,537	*28,058
0-14VC76	Los Angeles	2	L.A.	At Western Ave. & Barham Blvd.	1.8	12/15/48	Oberg Bros. Const. Co.	Steel O.C.	656,765	51,529	*708,294

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
0-14VC77	Los Angeles	2	L.A.	At Glendale Blvd.	2.0	1/ 3/49	J. E. Haddock, Ltd.	2 R.C. UC. & Apps.	\$463,161	\$34,391	\$497,552
0-7VC99	Los Angeles	2	L.A. D	Bet. Soto St. & Eastman Ave.	2.0	1/ 7/49	Huetting & Schromm.	Landscape	46,764	4,270	\$51,034
0-7VC96	Los Angeles	2	L.A.	Bet. Hill St. & Spring St.	0.1	1/18/49	Guy F. Atkinson Co.	Grade, P.C.C. & A.C. & 2 R.C. OC's	938,278	100,000	\$1,038,278
0-14VC79	Los Angeles	2	L.A.	At Hollirope Drive	---	2/17/49	Chas. MacClosky Co.	R.C. Undercrossing	490,894	30,658	\$521,552
7V142	Los Angeles	2	L.A. D	Bet. Aliso St. & Eastman Ave.	---	3/ 1/49	Day Labor	Signs & Lights	6,018	---	6,018
0-14VC80	Los Angeles	2	L.A.	At E. Edgeware Road	---	3/ 1/49	J. E. Haddock, Ltd.	R.C. Overcrossing	110,820	14,522	\$125,342
0-7VC107	Los Angeles	2	L.A.	Bet. Normandie Ave. & Alexandria Ave.	0.2	4/ 8/49	McClain Const. Co.	Outer Highways	28,337	4,083	\$32,420
0-7VC108	Los Angeles	2	L.A.	Boston St. Extension	0.1	4/14/49	Dragnine Rentals Co.	Grade & P.M.S.	15,467	2,039	\$17,506
0-14VC84	Los Angeles	2	L.A.	At Los Angeles Street	---	4/23/49	J. E. Haddock, Ltd.	2 R.C. OC's	463,658	32,000	\$495,658
0-7VC120-F	Los Angeles	2	L.A.	On Hollywood Freeway Bet. Virgil Ave. & Glendale Blvd.	1.6	6/ 9/49	N. M. Ball Sons	Grade & P.C.C.	1,301,403	136,000	\$1,437,403
0-7VC127-F	Los Angeles	2	L.A.	On Hollywood Freeway Bet. Glendale Blvd. & Grand Ave.	---	6/24/49	N. M. Ball Sons	Grade & P.C.C.	937,051	120,000	\$1,057,051
1-14VC92-F	Los Angeles	2	L.A.	At North Main Street	1.2	9/16/49	J. E. Haddock, Ltd.	2 R.C. OC's	576,106	39,000	\$615,106
1-7VC132	Los Angeles	2	L.A.	On Hollywood Freeway Bet. Holly Crest Drive & Vineland Ave.	---	10/11/49	Elc. & Mach. Serv., Inc.	Illuminated Signs	3,722	564	4,286
1-14VC96-F	Los Angeles	2	L.A.	Inbound Lanes over Santa Monica Freeway atbound & Hollirope Drive	---	12/15/49	Chas. MacClosky Co.	R.C. Sep. Street	492,057	36,000	\$528,057
1-14VC97-F	Los Angeles	2	L.A.	Over Hollywood Freeway at Hill Street	---	2/ 8/50	Spencer Webb Co.	R.C. Overcrossing	418,695	30,000	\$448,695
7V158	Los Angeles	2	L.A.	Bet. Virgil Ave. & Glendale Blvd.	1.6	3/29/50	Day Labor	Signs, Stripes & Markings	10,952	---	10,952
1-7VC156-F	Los Angeles	2	L.A.	Bet. Western Ave. & Virgil Ave.	1.7	5/11/50	Griffin Co.	Grade & P.C.C. & R.C. Ped. UC.	1,346,098	156,000	\$1,502,098
7V159	Los Angeles	2	L.A.	Bet. Glendale Blvd. & Grand Ave.	1.2	5/18/50	Day Labor	Signs, Stripes & Safety Devices	3,400	---	3,400
1-14VC101-F	Los Angeles	2	L.A.	At Sunset Blvd.	---	6/ 2/50	Lars Oberg	R.C. Overcrossing	294,308	39,000	\$333,308
1-14VC102-F	Los Angeles	2	L.A.	At Fountain Ave.	---	6/20/50	Oberg Bros. Const. Co.	Grade, A.C. & R.C. Overcrossing	295,370	32,000	\$327,370
1-7VC158	Los Angeles	2	L.A.	Bet. Virgil & Grand Ave.	---	6/29/50	Newberry Etc. Corp.	Lights & Illuminated Signs	143,568	9,000	\$152,568
1-14VC104-F	Los Angeles	2	L.A.	At Wilton Place	---	6/29/50	George W. Peterson & Jack W. Baker	R.C. Overcrossing	299,980	36,000	\$335,980
51-14VC7	Los Angeles	2	L.A.	Over Hollywood Freeway at Belmont Ave.	---	9/19/50	Byerts & Sons	R.C. Ped. OC.	31,160	4,200	\$35,360
51-14VC11-F	Los Angeles	2	L.A.	At Van Ness Ave.	---	11/27/50	J. E. Haddock, Ltd.	2 R.C. Brs.	309,108	32,300	\$341,608
51-7VC25	Los Angeles	2	L.A.	Bet. Western Ave. & Virgil Ave.	---	12/13/50	Fischbach & Moore of Calif., Inc.	Lights & Signs	62,568	5,500	\$68,068
51-7VC26	Los Angeles	2	L.A.	Bet. Beaudry Ave. & Grand Ave.	0.4	12/22/50	Jannoch Nurseries	Roadside Development	42,875	3,700	\$46,575
7V165	Los Angeles	2	L.A.	Bet. Virgil Ave. & Western Ave.	1.7	1/ 3/51	Day Labor	Signs, Stripes, Markings & Safety Devices	7,492	4,300	\$11,792
51-7VC29	Los Angeles	2	L.A.	Bet. Virgil Ave. & Beaudry Ave.	2.3	1/11/51	Jannoch Nurseries	Roadside Development	51,135	4,300	\$55,435
51-14VC13	Los Angeles	2	L.A.	At Holly Drive	---	1/19/51	George W. Peterson & Jack W. Baker	R.C. Undercrossing	288,104	30,000	\$318,104
51-7VC34-F	Los Angeles	2	L.A.	Bet. Grand Ave. & Los Angeles St.	0.5	1/26/51	Webb & White	Grade, P.C.C. & A.C. & R.C. OC.	944,626	90,000	\$1,034,626
51-14VC18-F	Los Angeles	2	L.A.	At Cahuenga Blvd.	---	3/20/51	Oberg Bros. Const. Co.	R.C. UC.	283,890	35,000	\$318,890

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
51-7VC42-P	Los Angeles	2	Hill St., L.A.	Bet. Sunset Blvd. & 200 Ft. S. of Temple St.	0.5	4/ 2/ 51	Webb & White	Grade & A.C.	\$218,714	\$21,000	*\$239,714
51-7VC51	Los Angeles	2	L.A.	Bet. Parkman & Grand		5/23/51	James E. Boothe	Plant Ground Cover	36,187	4,000	*40,187
52-7V25	Los Angeles	2	L.A.	Bet. Grand Ave. & Los Angeles St.		1/29/52	Day Labor	Signs & Stripes	5,731		*5,731
1-7VC144-F	Los Angeles	4	A, G	Bet. 0.4 Mi. S. of Castaic Cr. & 0.4 Mi. N. of Palomas Wash.	5.1	2/ 1/ 50	Basich Bros. & Basich Bros. Const. Co. & W. C. Lefever & D. Gerald Bing				
1-7VC157	Los Angeles	4	A, G	2.2 Mi. N. of Castaic Cr. & at Palomas Wash.		5/23/50	Elc. & Mach. Serv. Inc.	Grade, P.M.S. on C.T.B., & 2 R.C. Brs.	827,235	97,500	*\$24,735
0-7VC78	Los Angeles	4, 79	F, A, B, A	Bet. S. of Santa Clara Riv. & Castaic Cr.	2.6	6/10/48	Griffith Co.	Lights	6,247	700	*6,947
7VC81	Los Angeles	4	F	Bet. Pico Canyon Rd. & Rte. 79	3.3	6/24/48	N. M. Ball Sons	Grade & A.C. on P.C.C. Base	486,107	50,000	*536,107
0-7VC87	Los Angeles	4	F, A	At Saugus Rd. & Ventura Rd.		8/11/48	California Elc. Works	Grade & P.C.C.	430,923	50,570	481,493
51-7VC11	Los Angeles	4, 79	F, A, B, A	At Saugus Jct. & at Castaic Jct.		8/ 2/ 50	Jannoch Nurseries	Signals & Lights	33,343	2,210	35,553
7VC31	Los Angeles	4	G	Bet. Palomas Cr. & Violin Saddle	2.6	3/10/47	Clyde W. Wood, Inc.	Sprinkling System	5,809	978	6,787
7VC37	Los Angeles	4	G, H	Bet. Violin Saddle & Whitaker Summit	4.4	2/ 6/ 48	Winston Bros. Co.	Grade & P.M.S.	798,702	74,581	873,283
7VC38	Los Angeles	4	H	Bet. 9 Mi. N. of Castaic & Frenchman's Flat		5/29/47	Winston Bros. Co.	Grade & P.M.S.	1,375,168	98,915	1,474,083
1-7VC153	Los Angeles	4	H, I, J	Bet. Frenchman's Flat & 0.5 Mi. N. of Alamos Cr.	3.8	5/ 5/ 50	A. Teichert & Son, Inc.	Grade & P.M.S.	1,455,481	126,678	1,582,159
0-7VC109	Los Angeles	4	J	Bet. N. of Los Alamos Cr. & S. of Rte. 59	6.7	4/14/49	Peter Kiewit Sons' Co.	Grade & P.M.S. on U.R.B.	1,970,514	195,000	*2,165,514
1-6VC43-F	L.A. Ker	4	J, D, A	See Kern County				Grade, P.M.S. & R.C. Br.	973,397	80,190	1,053,587
51-7VC43	L.A., Ker, Ven.	4, 2	J, D, A, F, A	Various Locations		3/29/51	Elc. & Mach. Serv. Inc.	Lights	32,613	3,000	*35,613
7AVC2	Los Angeles	4	Brb	Bet. Burbank Blvd. & Orange Grove Ave.	0.5	10/30/45	Jesse S. Smith	Grade & A.C.	89,179	13,950	103,129
7V45	Los Angeles	4	Brb	Bet. Magnolia Ave. & Providencia Ave.		7/10/46	Day Labor	Signals	13,675		13,675
1-7VC125-P	Los Angeles	4	Brb	Bet. San Fernando Blvd. & Burbank Blvd.	0.8	6/ 9/ 49	Griffith Co.	Grade & A.C.	201,546	23,031	224,577
1-7VC12	Los Angeles	4	Brb	At San Fernando Blvd. & Burbank Blvd.		8/ 5/ 49	C. D. Draucker, Inc.	Signals & Lights	24,663	2,884	*27,547
51-7VC30	Los Angeles	4	Brb	Bet. Orange Grove Ave. & San Fernando	0.6	1/11/51	Jesse S. Smith	A.C. & Resurf. with P.M.S.	68,975	6,950	*75,925
51-7VC39	Los Angeles	4	Brb	Bet. Burbank Blvd. & Magnolia Blvd.		2/14/51	Alc. Chan Link Mach. Co.	Chain Link Fence	3,870	500	*4,370
1-7VC139	Los Angeles	4, 213	L.A. SFr	Various Locations		12/15/49	Clinton Elc. Corp.	Signals & Lights	24,702	2,828	*27,620
7V179	Los Angeles	4	L.A.	Across Big Tulunga Wash.		6/15/51	Day Labor	Widen R.C. Bridge	192,775	24,000	*216,775

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
7VV11	Los Angeles	9	A, B	On Foothill Blvd.	-----	7/12/48	Day Labor	Signals & Chnlz.	\$6,057	-----	\$6,057
0-7VVC1	Los Angeles	9	A, B	On Foothill Blvd.	-----	7/23/48	C. D. Draucker, Inc.	Signals & Chnlz.	70,334	\$3,736	74,070
14VC33	Los Angeles	9	G	Across San Gabriel River near Azusa	-----	6/26/47	Bonadiman-McCain, Inc.	Reconstruct Br.	44,184	6,118	50,302
7VC34	Los Angeles	9	H	Bet. Citrus Ave. & Grand Ave.	1.0	4/29/47	Griffith Co.	P.M.S.	7,873	646	8,519
0-7VVC5	Los Angeles	9	J, Ada, Munro	Various Locations on Foothill Blvd.	-----	10/ 6/48	C. D. Draucker, Inc.	Signals & Lights	36,405	1,896	38,301
7V163	Los Angeles	9	N	Bet. Los Angeles Co. Line & Los Angeles W.C.L.	-----	10/13/50	Day Labor	Widen	33,662	1,495	35,157
0-7VVC11-P	Los Angeles	9	Cla	On Foothill Blvd. at Indian Hill Blvd.	-----	6/28/49	Paul R. Gardner	Signals & Lights	9,873	1,153	11,026
7VC53-P	Los Angeles	9	Munro, G, H, Gdr, Munro	Bet. 5th Ave. & Glendora Ave.	-----	1/17/48	Econolite Corp.	Signals & Lights	82,490	1,472	83,962
1-7VC136	Los Angeles	9	Munro	Bet. Shamrock Ave. & Huntington Drive.	1.1	12/ 9/49	Vido Kovacevich Co.	Grade & P.M.S.	127,302	18,069	145,371
51-7VC14	Los Angeles	9	Pas, E	Bet. Sierra Madre Villa Ave. & Michilinda Ave.	0.8	8/18/50	J. E. Haddock, Ltd.	Grade & P.M.S. on C.T.B.	75,463	10,000	*85,463
7V162	Los Angeles	9, 165	Pas	At Various Intersections.	-----	10/11/50	Day Labor	Temporary Signals.	2,511	-----	2,511
51-7VC33	Los Angeles	9, 168	Pas, E, C	At Resmead Blvd.	-----	1/22/51	Fiebach & Moore of Calif., Inc.	Signals & Lights	10,922	1,250	*12,172
1-7VVC13	Los Angeles	9	SFr	Macley Ave. at 7th St.	-----	9/21/49	C. D. Draucker, Inc.	Signals	2,055	347	2,402
7XC22	Los Angeles	19	B, Pom	Bet. Rte. 77 & Pomona	0.7	10/17/46	Match Bros.	Grade & Widen with P.C.C.	72,373	9,414	81,787
0-7VC88	Los Angeles	19	Pom	Bet. White Ave. & Garey	0.5	8/11/48	Cox Bros. Const. Co.	P.M.S.	39,191	1,973	41,164
7V146	Los Angeles	23, 79	C,D,E,B	Bet. Williams Ranch & Palmdale & Bet. Jet. Rte. 23 & Saugus	-----	7/ 1/49	Day Labor	Improve Shoulders	55,134	1,548	56,682
7VC26	Los Angeles	23	E, F	About 0.5 Mi. N. of Palmdale	0.8	12/30/46	A. A. Edmondson	Grade & P.M.S.	60,829	280	61,109
1-7VVC19	Los Angeles	23	F	At Intra. Sierra Hwy. & 10th St.	-----	3/13/50	Ele. & Mach. Serv., Inc.	Signals	5,275	421	5,696
0-7VC74	Los Angeles	23	G	Bet. Lancaster & Kern Co. Line	8.1	4/22/48	G. W. Ellis Const. Co.	Resurface with P.M.S. on B.S.T.	96,679	8,835	105,514
0-7VC68	Los Angeles	23	I	Bet. Rte. 79 & ½ Mi. S. of Santa Clara Rv.	4.0	4/ 1/48	Schroeder & Co.	Grade & P.M.S.	74,137	5,392	79,529

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
52-7VC3	Los Angeles	23	I	Bet. 0.5 Mi. S. S.P.R.R. Overhead & Solamint	0.9	4/ 2/51	Basich Bros. Const. Co. N. L. & R. L. Basich	P.M.S.	\$18,690	\$2,000	*\$20,690
52-7VC4	Los Angeles	23	LA, H	Bet. Tunnel Sta. & N'y End of Section H	2.0	4/ 2/51	Basich Bros. Const. Co. N. L. & R. L. Basich	P.M.S.	51,338	4,523	55,861
7XC36	Los Angeles	26	A, B EMte	Bet. San Gabriel Blvd. & Mt. View Rd.		6/ 6/47	C. D. Draucker, Inc.	Signals	55,781	5,600	*61,381
0-7VC72	Los Angeles	26	A, EMte	Bet. New Ave. & Mountain View Ave.	3.9	4/15/48	Wm. Radkavich Co., Inc.	Grade & P.M.S. on U.R.B.	108,790	7,986	116,776
0-7VVC9-P	Los Angeles	26, 172	MonP, Mtbl	At Intrs. of Garvey Ave. & Denton Ave. & 3d St. & Garfield		4/27/49	Presscott Elec. & Mfg. Co.	Signals & Lights	13,132	1,124	*14,356
0-7VVC2	Los Angeles	26	B, WCov	Bet. Frazier St. & Barranca St.		7/29/48	Paul Gardner	Signals	76,685	3,221	79,906
7XC37	Los Angeles	26, 77	C, B	At Holt Ave. & Bellevue Ave.		6/24/47	Econolite Corp.	Signals & Lights	30,941	3,000	*33,941
7XC38	Los Angeles	26, 77	C, B	At Holt Ave. & Bellevue Ave.	0.5	6/24/47	Griffith Co.	Widen & A.C. on P.C.C. Base	74,341	7,400	*81,741
7VVC23	Los Angeles	26	Alh	At Ramona Blvd. & Garvey Ave.		3/22/48	Econolite Corp.	Signals	14,083		14,083
7XC16	Los Angeles	26	LA, A	Bet. Macy St. & Indiana St.	1.9	4/26/46	Alcorn Fence Co.	Fence	26,927	1,843	28,773
7VVC58	Los Angeles	26	LA, A	Bet. Macy St. & Indiana St.	1.8	2/13/48	Jannoth Nurseries	Landscaping	40,944	2,691	43,635
1-7VC130-F	Los Angeles	26	LA, D	Bet. Evergreen Ave. & E. of Helen Drive	1.8	9/ 1/49	J. E. Haddock, Ltd.	Grade, P.C.C., P.M.S., 3 R.C. Brs. & 2 R.C. Ped. UCs Ex- tended	1,234,065	134,500	*1,368,565
1-7VC147	Los Angeles	26	LA, D	Bet. Macy St. & Helen Drive		2/ 9/50	Elc. & Mach. Serv., Inc.	Signals & Lights	36,952	4,000	*40,952
7VVC157	Los Angeles	26	LA, D	Bet. Evergreen Ave. & Helen Drive		3/23/50	Day Labor	Signals, Stripes & Signals	7,584		7,584
7XMC4	Los Angeles	26	MonP, A	Various Locations		12/11/46	C. D. Draucker, Inc.	Signals	42,189	686	42,875
51-7VC19-P	Los Angeles	26, 167, 172	MonP, A Mtbl	Various Locations							
52-7VC1	Los Angeles	26	MonP, Mtbl	Various Intersections		11/14/50	Westates Elec. Const. Co.	Signals & Lights	20,402	2,000	*22,402
7V102	Los Angeles	26	Pom	Bet. Hamilton Blvd. & W.C.L.	0.7	4/ 1/52	R. A. Erwin	A.C.	30,678	5,000	*35,678
14VC45	Los Angeles	59	D	Across Sandy Creek		2/ 2/48	Day Labor	R.C. Culvert	5,941	139	6,080
	Los Angeles	59	H	Across Big Rock Wash		1/23/48	Troy Const., Inc.	2 R.C. Bridges	39,204	4,384	43,588
7VC23	Los Angeles	60	A	Bet. Laigu Canyon & Malibu Cr.	4.5	10/14/46	Peter Kiewit Sons' Co.	Grade & P.C.C.	1,632,924	143,893	1,777,817

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
0-7VC92	Los Angeles	60	A	Bet. Malibu Cr. & Las Flores Cr.	2.9	10/11/48	Dico, Inc., & Dix-Syl Const. Co., Inc.	Grade, P.M.S. & Widen 2 R.C. Brs.	\$483,651	\$52,068	\$535,719
0-7VC97	Los Angeles	60	A	Bet. Solstice Canal & Malibu Cr.	3.3	1/ 4/49	Stephen L. Vistica	Landscape	9,867	1,394	11,210
7V86	Los Angeles	60	B	0.4 Mi. N'ly of L.A. Co. Line		1/17/47	Day Labor	Reconst. Culvert	16,261	816	17,077
51-7VC46	Los Angeles	60, 156	B, A	At Topanga Canyon Blvd.		4/24/51	Westates Elec. Const. Co.	Signals & Lights	12,451	1,250	*13,701
7VC63	Los Angeles	60, 158	C, B	Various Locations		3/ 5/48	Econolite Corp.	Signals	49,455	747	50,402
7V41	Los Angeles	60	ESeg, ManB	In El Segundo at El Segundo Blvd. & in Manhattan Beach at Rosecrans Blvd.		5/20/46	Day Labor	Widen & Chnlz.	3,768	128	3,896
7VC22	Los Angeles	60, 166	ESeg, ManB, A	At Intrs. of Rte. 60 with El Segundo Blvd. & Rosecrans Ave. & of Rte. 166 with Washington Blvd.		7/19/46	Econolite Corp.	Signals	24,705	1,796	26,501
7VV65	Los Angeles	60, 179	LBch	At Pacific Coast Hwy. & 7th St.		2/23/49	Day Labor	Signals	5,542		5,542
7VV61	Los Angeles	60	LBch	At Ximeno Ave. & Anaheim St.		9/ 1/50	Day Labor	Signals & Lights	8,994		8,994
7AVC3	Los Angeles	60	L.A. G, LBch	Bet. Dominguez Channel & S. Gabriel Ave.	0.7	4/25/46	James I. Barnes Const. Co.	Grade, A.C. & 4 SLL Bridges	1,996,111	195,000	*2,191,111
7V147	Los Angeles	60	L.A	Bet. Alameda St. & W.C.L. (portion)	1.2	7/ 1/49	Day Labor	P.M.S. & Shldr.	49,647		49,647
1-7VC131	Los Angeles	60	L.A	Bet. Washington Blvd. & Venice Blvd.	0.4	9/15/49	Jesse S. Smith & A. A. Edmondson	Widen & Resurface with A.C. & P.C.C.	78,305	10,273	*88,578
51-7VC9	Los Angeles	60	L.A	Bet. A.T.S.F. Overhead & Figueroa St.	1.5	5/11/50	Griffith Co.	P.M.S. & Widen R.C.	18,414	1,518	19,932
51-7VC31-P	Los Angeles	60	L.A	At Sunset Blvd. & Chautauqua Blvd.	0.7	1/29/51	Jesse S. Smith	Widen, P.M.S. & Widen R.C. B.	74,829	7,400	*82,229
52-7VC5	Los Angeles	60	L.A	Bet. Vermont Ave. & Figueroa St.	0.6	4/ 2/51	Warren Southwest, Inc.	P.M.S.	50,960	8,923	*59,883
51-7VC9	Los Angeles	60	L.A	Bet. S.C.L. & Washington Blvd.	0.3	6/ 5/51	Oswald Bros. Co.	Widen & P.M.S.	16,633	1,600	*18,233
7VMC9	Los Angeles	60, 175	ManB	At Center St. & Gould Lane		2/17/47	Econolite Corp.	Signals	25,903		25,903
0-7VMC38-P	Los Angeles	60	HmB	At Marne Ave.		7/17/48	Econolite Corp.	Signals	11,609		11,609
7VMC11	Los Angeles	60	RdOB, HmB	At Redondo & Hermosa Beach		3/ 7/47	C. D. Draucker, Inc.	Signals	44,274	1,545	45,819
51-7VVC1-P	Los Angeles	60	RdOB	At Intrs. with Ave. F		8/ 3/50	Fischbach & Moore of Calif., Inc.	Signals	2,467	400	*2,867
51-7VC45-P	Los Angeles	60	RdOB	At Vincent Street		4/24/51	C. D. Draucker, Inc.	Signals	3,089	320	*3,409

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
7VC80 0-7VVC10	Los Angeles Los Angeles	60 60, 158	SMca SMca, A	Bet. Colorado St. Tunnel & Lincoln Blvd. & Sepulveda Blvd. at Constitution Ave.	0.6	6/18/48	J. E. Haddock Ltd.	P.M.S. on I.B. & U.R.B.	\$79,397	\$7,780	\$87,176
7V169	Los Angeles	60	SMca	Bet. Wly Tunnel Portal & California Ave. Incline	0.8	5/ 6/49	Westates Elc. Const. Co.	Signals & Lights	14,593	902	15,495
52-7VC2	Los Angeles	60	SMca	Bet. Wly Tunnel Portal & California Ave. Incline	0.9	2/ 8/51	Day Labor	Subseal	5,136	---	5,136
47X1 7V134 7V148 52-7V10	Los Angeles Los Angeles Los Angeles Los Angeles	61 61 61 61	C, D C, D C, D C, D	Bet. Chilao & W. Islip Saddle Angeleno Crest Highway Angeleno Crest Highway Angeleno Crest Hwy. (por.)	3.1 8.3 7/ 1/48 7/ 1/49 7/ 5/51	6/21/41 7/ 1/48 7/ 1/49 7/ 5/51	Honor Camp Labor Honor Camp Labor Honor Camp Labor Honor Camp Labor	Grade Grade Grade Grade	1,016,529 38,943 37,329 423,000 423,000	35,500 37,329 31,614 28,532	1,092,093 406,274 434,614 451,542
51-7VC16-P 52-7VC40-P	Los Angeles Los Angeles	61 61, 161	GndI GndI	Various Locations Ints. Verdugo Rd. with Maple St. & with Acacia Ave., & Colorado St. with Louise St.	---	9/20/50	C. D. Draucker, Inc.	Signals & Lights	33,325	728	34,053
7V122	Los Angeles	62	B	Across N. Fork San Gabriel River	---	5/ 6/52	Westates Elcl. Const. Co.	Signals & Lights	15,921	1,800	*17,721
7V139 1-7VVC20	Los Angeles Los Angeles	77 77	A, EMte A	Bet. San Bernardino Rd. & Rte. 26 Valley View Blvd. at Mountain View Rd.	---	5/ 5/48 12/14/48 3/14/50	Day Labor Day Labor Elc. & Mach. Serv. Inc.	Replace Timber Br. Improve Drainage Signals	12,091 13,895 2,095	564 ---	12,655 13,895 2,243
7XMC2	Los Angeles	77	Alh, SGB	Various Locations	---	11/12/46	C. D. Draucker, Inc.	Signals	57,226	---	57,226
0-7VC101 0-7VC104	Los Angeles Los Angeles	77 77	EMte, A EMte, A	Bet. San Bernardino Rd. & Rte. 26 Bet. San Bernardino Rd. & Garvey Ave.	1.1	1/12/49 1/20/49	M. S. Meham & Sons & Boddum & Peterson Prescott Elc. & Mfg. Co.	P.M.S. Signals & Lights	188,236 14,957	23,098 1,785	211,334 16,742
7VC65 52-7VC7-P 52-7V28	Los Angeles Los Angeles Los Angeles	77 77 77, 167	SGB, A EMte SGB SGB, A, MonP	Bet. San Gabriel Blvd. & Hoyt Ave. At Isabel Ave. & Walnut St. Bet. E.C.L. & W.C.L. of San Gabriel & Bet. Anaheim-Telegraph Rd. & Garvey Ave.	---	3/17/48 5/16/51	Elc. & Mach. Serv., Inc. Clinton Elc. Corp.	Signals Signals	35,338 6,066	2,100 600	37,438 *6,666
0-7VC66 7V145	Los Angeles Los Angeles	79 155	B A	Bet. Saugus & Rte. 4 Decker Canyon Rd.	2.3 4.2	3/ 6/52 4/ 1/48 6/ 9/49	Day Labor Smith-Edmondson Co. Day Labor	Asphalt Subsealing Grade & P.M.S. B.S.T. & Extend Culverts	18,535 28,856 13,895	---	18,535 31,683 13,895

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
51-7VC4	Los Angeles	158	A, L.A	Bet. Ohio Ave. & Bolas St.	1.3	4/ 1/50	Jesse S. Smith	Grade & P.M.S. on U.R.B.	\$44,237	\$4,649	\$48,886
7V112	Los Angeles	158	B	On Centinela Ave. at Slauson & Jefferson Blvd.		2/26/48	Day Labor	Signals & Chnlz.	5,784		5,784
1-7VC112	Los Angeles	158	B, LA	Bet. Plays St. & E.C.L. of Culver City	1.0	4/21/49	J. E. Haddock, Ltd.	Widen & Resurf. with P.M.S.	71,149	6,637	77,786
51-7VC52-P	Los Angeles	158, 174	B,C,D,B	Various Intersections		6/15/51	C. D. Draucker, Inc.	Signals & Lights	21,016	2,000	*23,016
1-7VC152	Los Angeles	158	L.A	Bet. Sunset & Ventura Blvd.	7.5	5/ 3/50	Schreeder & Co.	P.M.S. on U.R.B.	195,018	25,000	*220,018
52-7V37	Los Angeles	159	L.A	Bet. Magnolia Blvd. & Bluffsides Drive		5/22/52	Day Labor	Improve Blvd.	34,408		*34,408
7X62	Los Angeles	161, 168	A, C	On Colorado St. at Rosemead Blvd.		7/30/46	Day Labor	Widen & Const. Div. Strip	6,189	509	6,698
7XC25	Los Angeles	161, 168, 9, 62	A, C Azu	Various Locations		11/28/46	Econolite Corp.	Signs & Lights	36,335	1,776	38,111
7VC40	Los Angeles	161, 9	Ada, Muro, G	In the Cities of Arcadia & Monrovia		6/30/47	Elc. & Mach. Serv., Inc.	Signals	39,020	200	*39,220
1-7VC117	Los Angeles	161	Brb	Bet. W.C.L. of Burbank & Victory Blvd.	2.6	5/28/49	Schreeder & Co.	Resurf. with P.M.S.	64,869	3,999	68,868
7VV102	Los Angeles	161	Brb	Various Locations		7/21/49	Day Labor	Signals & Chnlz.	5,579		5,579
7V167	Los Angeles	161	Brb	At Keystone St., Reese Place, Mariposa St., & Main St.		1/ 5/51	Day Labor	Signals	2,865		2,865
7XC33	Los Angeles	162	A	Bet. Doheny Dr. & La Brea Ave.		5/ 9/47	C. D. Draucker, Inc.	Signals	67,742	6,375	*74,117
53-7VC2	Los Angeles	162	L.A	Santa Monica Blvd., Bet. Seward St. & Gower St.	0.6	4/ 1/52	G. J. Payne Co.	P.M.S.	17,620	2,500	*20,120
7X100	Los Angeles	164	A	1.05 Mi. E'ly from Sepulveda Blvd.		10/ 2/47	Day Labor	C.M.P. Culvert	6,080	169	6,249
7VC60	Los Angeles	164	A, Haw	Bet. Redondo Beach & Century Blvd.		2/20/48	C. D. Draucker, Inc.	Signals	81,325	3,433	84,758
Q-7VVC4	Los Angeles	164	A, Haw	Bet. 166th St. & 132d St.		9/17/48	Econolite Corp.	Signals	28,201	1,558	29,759
51-7VC3	Los Angeles	164	A	Bet. Imperial Hwy. & Century Blvd.	1.1	4/ 1/50	Oswald Bros. Co.	Resurf. with P.M.S.	29,179	3,669	32,788
Q-7VVC6	Los Angeles	164	Ing	On La Brea Ave.		1/ 4/49	Elc. & Mach. Serv., Inc.	Signals	19,123	2,186	21,309
51-7VC28	Los Angeles	164, 174	Ing	Various Locations		1/ 2/51	Elc. & Mach. Serv., Inc.	Signals	14,930	978	15,908
52-7VC8	Los Angeles	164	Ing, L.A	Bet. Freeman Blvd. & Sepulveda Blvd.	1.5	5/23/51	Oswald Bros. Co.	Grade & P.M.S.	186,377	19,300	*205,877

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
7VC46	Los Angeles	165, 167, 174	A, A SGt	Figueroa St. & Carson St. Atlantic Ave. & Rosecrans Ave. & Firestone Blvd. & Garfield Ave.		10/ 2/47	Econolite Corp.	Signals	\$24,783	\$515	\$25,298
52-7VC23	Los Angeles	165, 168	A, A	At Intrs. Figueroa St. with Sepulveda Blvd. & Lakewood Blvd. with Gardendale St.		12/13/51	Fishbach & Moore, Inc.	Signals & Lights	25,212	2,500	*27,712
7XC21-F	Los Angeles	165	L.A.	Bet. College St. & Bernard St.	0.3	8/16/46	J. E. Haddock Ltd.	Grade & P.C.C.	287,196	24,086	*311,282
14XC10-F	Los Angeles	165	L.A.	At Sunset Blvd.		1/28/47	Winston Bros. Co.	R.C. Overcrossing	488,316	31,000	*522,316
7XC20-F	Los Angeles	165	L.A.	Bet. College St. & Bernard St.	0.3	3/27/47	Jamoch Nurseries	Landscape	27,615	2,404	*29,019
7XM019	Los Angeles	165	L.A.	Bet. Bernard St. & Ave. 22	1.3	9/23/47	J. E. Haddock, Ltd.	Grade, P.M.S. & P.C.C.	281,920		*281,920
7XM013	Los Angeles	165	L.A.	Bet. Bernard St. & Ave. 22	1.3	9/22/47	Huetting & Schromm	Landscape	19,989		19,989
14VC47-F	Los Angeles	165	L.A.	Harbor Parkway at Temple St.		10/14/47	James I. Barnes Const. Co.	R.C. Undercrossing	383,101	27,925	*381,026
14VC55-F	Los Angeles	165	L.A.	Arroyo Seco Parkway at Alpine St.		5/14/48	G. W. Peterson	R.C. Overcrossing	106,353	9,385	*115,738
7V137	Los Angeles	165	L.A.	Bet. Tul St. & Wilshire Blvd.		11/17/48	Day Labor	Open Street Connection	120,000		120,000
0-7VC102	Los Angeles	165	L.A.	Bet. Bartlett St. & Figueroa Terrace	0.2	1/12/49	Jesse S. Smith	Grade & A.C.	102,013	12,316	*114,329
1-14VC95	Los Angeles	165	L.A.	On Arroyo Seco Parkway, Bet. Castellar St. & Bridwell Ave. OC.		8/23/49	Day Labor	Refuge Areas	52,387	2,944	55,331
51-7VC1	Los Angeles	165	L.A.	At 1st & 2d Streets		11/18/49	Oberg Bros. Const. Co.	2 R.C. Undercrossings	420,787	23,856	444,643
51-7VC7	Los Angeles	165	L.A.	On Figueroa St. Bet. Marnion Way & Ave. 50	1.1	4/ 1/50	C. O. Sparks, Inc. & Mundo Engr. Co.	Resurf. with P.M.S.	15,289	2,604	17,893
1-14VC103-F	Los Angeles	165	L.A.	Bet. Lomita Blvd. & 1 St. on S. Figueroa St.	1.2	5/ 8/50	Warren Southwest, Inc.	P.M.S. on I.S.M. & U.R.B.	55,911	6,557	62,568
51-14VC4-F	Los Angeles	165	L.A.	At 3d St.		6/10/50	Chas. MacClosky Co.	2 R.C. Bridges	334,362	44,500	*378,862
51-7VC27	Los Angeles	165, 205	L.A., SPas, Pas	At 4th St.		8/24/50	W. J. Distell	R.C. Bridge	519,123	52,000	*571,123
7X35	Los Angeles	166	A	Bet. College St. & Glenarm St.		12/22/50	Elc. & Mach. Serv., Inc.	Lights & Signs	50,884	5,000	*55,884
0-14VC67-F	Los Angeles	166	A	At Washington Blvd.		4/13/46	Day Labor	Widen, Curbs & Stripes	5,471	28	5,499
0-7VC106	Los Angeles	166, 167	A, A	Bet. La Verne Ave. & Eastland Ave.	0.9	9/15/48	Griffith Co.	Grade, P.C.C., P.M.S., 2 Conc. & 1 Std. Struct.	1,387,165	106,659	1,493,824
	Los Angeles			On Santa Ana Parkway at La Verne & Eastland Aves.		2/ 3/49	Econolite Corp.	Signals & Lights	96,103	4,102	100,205

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
1-7VC140	Los Angeles	166	A	On Anaheim-Telegraph Road, Bet. Hoefner Ave. & A.T.S.F. UP.	1.5	12/15/49	Griffith Co.	Grade & P.M.S.	\$57,202	\$9,302	\$66,504
7V154	Los Angeles	166	A	Bet. La Verne Avenue & Eastland Ave.	0.9	1/12/50	Day Labor	Signs, Stripes & Markings.	7,320		7,320
1-7VC150	Los Angeles	166	A	On Anaheim-Telegraph Road at Slauson		4/ 4/50	Elc. & Mach. Serv., Inc.	Signals & Lights.	7,122	232	7,354
1-14VC99	Los Angeles	166	A	Bet. Gage Ave. & Tweedy Lane.	0.6	4/28/50	Macoco Corp.	P.M.S., Slt. Br. & Apps.	282,261	29,500	*281,761
51-7VC22	Los Angeles	166	A	Bet. La Verne Ave. & Eastland Ave.	0.6	11/17/50	Henry C. Soto Corp.	Roadside Development.	21,338	2,200	*23,538
7VC54	Los Angeles	167	A, Lyn	At Atlantic Ave.		1/21/48	C. D. Draucker, Inc.	Signals.	12,274	395	12,669
7VC62	Los Angeles	167	A	At Jardine & Everington Sts.		2/20/48	Econolite Corp.	Signals.	12,811	794	13,605
7VV42	Los Angeles	167	LBCh	Various Locations.		12/ 7/48	Day Labor	Signals.	3,757		3,757
7VV49	Los Angeles	167	LBCh	Various Locations.		7/21/49	Day Labor	Signals.	4,318		4,318
7XMC8	Los Angeles	167	Lyn, SGT	In the Cities of Lynwood & South Gate.		6/26/47	Econolite Corp.	Signals.	31,156		31,156
7V144	Los Angeles	167	Lyn, SGT	Bet. Lynwood & South Gate.	2.9	5/ 2/49	Day Labor	Subseal.	6,379		6,379
1-7VC122	Los Angeles	167	Lyn, SGT	Bet. S.C.L. & Patata St.	1.7	6/ 7/49	C. O. Sparks, Inc., & Mundo Engr. Co.	Resurface with P.M.S.	48,759	3,483	52,242
1-7VC114	Los Angeles	167	SGT	At Patata St.		5/ 6/49	Vido Kovacevich Co.	Drainage Facilities.	14,458	1,629	16,087
7XC28	Los Angeles	167	Var.	Various Locations.		1/22/47	R. E. Ziebarth.	Signals.	52,506	1,101	53,607
7XC35	Los Angeles	168	A	On Lakewood Blvd., Bet. Spring St. & Conant St.	0.7	5/20/47	Jesse S. Smith.	Reconstruct & P.M.S. Shldrs.	29,625	1,471	31,096
0-7VC94	Los Angeles	168	A, B	Bet. Bellflower Blvd. & Beverly Blvd.	5.9	11/19/48	Vido Kovacevich & Vido Kovacevich Co.	Grade & P.M.S. on U.R.B.	572,544	49,767	622,311
0-7VC98	Los Angeles	168	A, B	Bet. Firestone Blvd. & Whittier Blvd.		12/23/48	Econolite Corp.	Signals & Lights.	54,979	2,655	57,634
7V140	Los Angeles	168	A, B	On Rosemead Blvd., Bet. Bellflower & Beverly.		12/30/48	Day Labor	Signs & Stripes.	4,977		4,977
51-7VC44	Los Angeles	168	A, LBCh	Bet. Carson St. & Center St.	5.9	4/24/51	M. S. Mecham & Sons	Base & P.M.S.	147,679	17,000	*164,679
52-7VC28	Los Angeles	168	A	At Inrs. Lakewood Blvd. with Candlewood St., Hardwick St., & Del Amo Blvd.	3.7						
7VC20	L.A., Ora	168, 60	B, SUB	At Inrs. of Rosemead & Washington Blvds. Coast Hwy. with Main St. & with Bay Blvd.		1/16/52	Fischbach & Moore, Inc.	Signals & Lights.	45,631	4,600	*50,231
0-7VC115	Los Angeles	168	B, C	Bet. Beverly Blvd. & Garvey Ave.	4.3	6/24/46	Econolite Corp.	Signals.	22,587	1,338	23,925
0-7VC128	Los Angeles	168	B, C	On Rosemead Blvd. Bet. Beverly Blvd. & Garvey Ave.		5/12/49	J. E. Haddock, Ltd.	Grade, P.C.C. & A.C.	509,189	65,931	575,090
7XC15	Los Angeles	168	C	On Rosemead Blvd., Bet. Huntington Dr. & Colorado St.		6/24/49	C. D. Draucker, Inc.	Signals & Lights.	43,922	2,178	46,100
7XC32	Los Angeles	168	C	On Rosemead Blvd. at Broadway	1.1	3/28/46	Griffith Co.	Grade & A.C.	122,380	14,987	137,367
						5/ 1/47	Prescott Elc. & Mfg. Co.	Signals.	8,938	529	9,467

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
7X66 0-7VC86 0-7VC90 1-7VC156-F	Los Angeles Los Angeles Los Angeles Los Angeles	168 168 168 168	C C C C, EMte	Bet. Colorado St. & Huntington Drive. Bet. Longden Ave. & Huntington Drive. At Longden Ave. & Duarte Road Bet. Garvey Ave. & Valley Blvd.	1.2 1.2 1.4 1.4	2/ 6/48 8/ 5/48 9/13/48 5/19/50	Day Labor Vido Kovacevich Co. Economite Corp. Vido Kovacevich Co.	Landscape Resurface with P.M.S. Signals and Lights Grade, P.C.C. & P.M.S. on C.T.B., 1 Sd. UP, & 2 R.C. Brs.	\$2,107 64,333 19,412 791,330	\$279 7,746 554 80,000	\$2,386 72,079 19,966 *871,330
51-7VC10 51-7VC47	Los Angeles Los Angeles	168 168	C C	Ramona Freeway Interchange Area At California St.	---	7/26/50 4/24/51	Newberry Ele. Corp. Paul R. Gardner	Lights Signals & Lights	10,516 11,238	1,039 284	11,555 11,522
7V175	Los Angeles	168	LBch	Lakewood Blvd. at 23d St.	---	5/21/51	Day Labor	Signals, Lights & Chulz.	2,859	---	2,859
7XC20	Los Angeles	170	A	Bet. Sixth St. & 0.4 Mi. N. of Imperial Hwy.	1.0	7/26/46	Cox Bros. Const. Co.	Repair with P.M.S. & Widen Shldr.	16,741	1,648	18,389
7X64 7XC23 0-7VC0 0-7VC7 1-7VC13 1-7VC17	Los Angeles Los Angeles Los Angeles Los Angeles Los Angeles Los Angeles	170 174 170 170 170 170	A, B A A A A A	At Firestone Blvd. & San Antonio Dr. Bet. Sprout St. & Anaheim-Telegraph Rd. Bet. Norwalk Blvd. & Orangeflorpe Ave. On Norwalk Blvd. Bet. Orangeflorpe Ave. & Firestone Blvd. Pioneer Ave. at Orangeflorpe Ave. & Norwalk Blvd. at Anaheim-Telegraph Rd.	1.5 1.5 1.9 3.4 3.4	8/ 9/46 10/ 9/46 4/ 1/48 1/ 7/49 4/21/49	Day Labor Griffith Co. Sully-Miller Contr. Co. Tri-Cities Ele. Serv., Inc. John J. Swigart Co.	Widen & Channelize P.M.S. P.M.S. Signals & Lights P.M.S.	10,130 22,686 32,032 18,192 48,762	835 2,731 2,139 1,500 4,302	10,965 25,417 34,171 *19,692 *53,064
7V121 52-7VC16	Los Angeles Los Angeles	170 172	Wit A, MonP, Mtbl	Bet. Whittier Blvd. & Holbrook Ave. On Pomona Blvd. Bet. Ferris Ave. & Portero Grande Drive.	---	10/15/49 4/16/48	Westates Eled. Const. Co. Day Labor	Signals & Lights Widen & Pave	18,753 8,000	680 ---	19,433 8,000
7VC64	Los Angeles	173	A	Bet. Indiana St. & Anaheim-Telegraph Rd.	2.3	7/27/51	Boddum & Peterson	Grade & A.C.	328,591	35,000	*363,591
7VC56-P 7VC79 51-7VC8 1-7VVC14	Los Angeles Los Angeles Los Angeles Los Angeles	173 173 173 173	L.A. SMca L.A. SMca	Bet. Lincoln Blvd. & Bundy Drive. Bet. Lincoln Blvd. & Bundy Drive. On Olympic Blvd. Bet. Lemon & Boyle. On Olympic Blvd. Bet. 11th St. & Cloverhead Blvd.	2.3 2.3 0.7 ---	2/ 2/48 6/10/48 4/28/50 9/19/49	Elc. & Mach. Serv., Inc. J. E. Haddock, Ltd. C. D. Draucker, Inc. Griffith Co.	Signals Grade, P.C.C. & A.C. Signals Resurf. with P.M.S.	23,125 865,767 49,272 17,649	686 57,102 1,164 1,927	23,811 922,869 50,436 19,576
7XC29	Los Angeles	174	B	On Firestone Blvd. Bet. Hooper Ave. & Santa Fe Ave.	---	1/31/47	Elc. & Mach. Serv., Inc. Prescott Ele. & Mfg. Co.	Lights Signals	8,775 30,406	526 1,137	9,301 31,543

COMPLETED CONTRACTS—June 30, 1952—Continued

[Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
7XC31	L.A. Ora.	174	B, A	On Firestone Blvd., Bet. Pioneer Blvd. & Lincoln Ave.	5.9	4/ 4/47	Jesse S. Smith.	Resurf. with P.M.S.	\$86,691	\$5,950	\$92,641
1-7VC110	Los Angeles	174	B	Bet. Manchester Ave. & Calden Ave.	0.4	4/21/49	Griffith Co.	P.M.S.	10,052	833	10,885
1-7VC133	Los Angeles	174	B	Bet. Lakewood Blvd. & Rosecrans	4.3	10/28/49	Basch Bros.	Grade, Widen, P.M.S. & R.C. Br.	455,465	60,000	*515,465
1-7VC134	Los Angeles	174	B	On Firestone Blvd. Bet. Woodruff & Bloomfield		11/29/49	Elc. & Mach. Serv., Inc.	Signals & Lights	29,713	2,458	32,171
1-7VC141-F	Los Angeles	174	B	Bet. Rosecrans Ave. & Orange Co. Line	3.5	1/ 3/50	Peter Kiewit Sons' Co.	Grade, A.C. on C.T.B. & 3 R.C. Brs.	676,904	75,000	*751,904
1-7VC143	Los Angeles	174	B	On Firestone Blvd. Bet. Rosecrans & Valley View		1/23/50	C. D. Draucker, Inc.	Signals & Lights	23,952	2,500	*26,452
51-7VC5	Los Angeles	174	B	On Firestone Blvd. Bet. Central & Ivy	1.3	4/ 1/50	C. O. Sparks, Inc., & Mundo Engr. Co.	P.M.S.	29,519	2,459	31,978
51-7VC24	Los Angeles	174	B	At Paramount Blvd., La Reina Ave., Downey Ave., & Church St.		12/ 5/50	Fischbach & Moore of Calif., Inc.	Signals	9,765	817	10,582
1-7VVC15	Los Angeles	174	Ing	On Manchester Blvd.		9/28/49	Elc. & Mach. Serv., Inc.	Signals	6,733	800	*7,533
52-7VC4-P	Los Angeles	174	Ing	On Manchester Blvd., Bet. Crenshaw Dr. & Van Ness Ave.	0.8	4/ 1/52	Warren Southwest, Inc.	Grade & P.M.S. on I.B.M. & U.R.B.	48,496	9,000	*57,496
0-7VC33	Los Angeles	174	SGT, B	Bet. L. A. River & Paramount Blvd.	1.9	10/22/48	Cox Bros. Const. Co.	Resurf. with P.M.S. on U.R.B.	103,075	11,115	114,190
0-7VC103	Los Angeles	174	SGT	Firestone Blvd. Apps. to L.A. Riv. Br.	0.6	1/12/49	O'Brien & Bell Const. Co.	Grade, & P.C.C.	153,461	15,481	168,942
51-7VC35-P	Los Angeles	174	SGT	At Rayo Avenue		1/24/51	Fischbach & Moore of Calif., Inc.	Signals, Lights & Chnlz.	20,142	2,566	22,708
52-7V20	Los Angeles	174	SGT	Along Rayo Ave. & across Firestone Blvd.		12/27/51	Day Labor	Storm Drain	8,100		*8,100
7X94	Los Angeles	178	A	Bet. Charlemagne Ave. & Bellflower Blvd.		6/23/47	Day Labor	Storm Drain	6,000		6,000
1-1AVC82	Los Angeles	178	A	Across San Gabriel River	0.5	4/ 8/49	R. M. Price Co., & O. B. Person	2 Steel Brs. & Apps.	296,308	31,640	327,948
1-7VVC22	Los Angeles	178	A	Carson St. at Clark		4/26/50	Westates Etlal. Const. Co.	Signals & Lights	8,633	447	9,080
0-7VC100	Los Angeles	205	L.A.	On Arroyo Seco Parkway		1/ 7/49	Alcorn Fence Co.	Chain Link Fence	23,809	2,311	26,120
7V122	Los Angeles	205	L.A.	On Arroyo Seco Parkway	3.2	6/26/49	Day Labor	Safety Devices	42,833	713	43,546
51-14RVC1	Los Angeles	205	L.A.	Across Arroyo Seco Channel Near Avenue 58		9/29/50	Walter Kaucher	Prestressed Conc. Ped. Br.	31,877		31,877
0-7VC105-P	Los Angeles	205	Pass, SPAS	On Arroyo Seco Parkway, at Fair Oaks Ave. & State St.		1/20/49	J. E. Haddock, Ltd.	Grade & P.M.S. Off-Ramp	23,607	3,345	26,952

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
0-7VC116	Los Angeles	205	SPas	On Arroyo Seco Parkway at Orange Grove Ave. & Fair Oaks Ave.	---	5/21/49	Elc. & Mach. Serv. Inc.	Lights	\$6,044	\$589	\$6,633
1-7VC137	Los Angeles	213	SFr, L.A.	Bet. Pacoima Cr. & Sayre Ave.	1.6	12/ 2/ 49	Vido Kovacevich Co.	Grade & A.C.	240,368	27,131	267,499
7XC26	L.A. Ora.	Various	---	Various Locations	---	12/ 2/ 46	Econolite Corp.	Signals	45,247	2,036	47,283
7VC52	L.A. Ora.	Various	---	Various Locations	---	12/18/47	Tri-Cities Etc. Serv.	Signals & Lights	29,632	1,290	30,923
0-7VVC3	Los Angeles	Various	---	Various Locations	---	8/ 5/ 48	Tri-Cities Etc. Serv.	Signals & Lights	46,215	2,835	48,050
7ASC14	Los Angeles	Access	L.A., LBCh	Term. Is. Freeway Bet. Henry Ford Ave. & Willow St.	2.1	4/18/46	Macco Const. Co.	Grade & A.C.	1,253,808	2,054	1,255,862
14ASC2	Los Angeles	Access	L.A.	On Term. Is. Freeway over Union Pacific R.R.	---	4/18/46	Macco Const. Co.	Steel Overhead	719,902	---	719,902
14ASC3	Los Angeles	Access	L.A.	Over tracks of U.P., S.P. & P.E. at Anaheim St.	---	4/18/46	E. W. Elliott Const. Co.	Steel Overhead	937,111	---	937,111
14ASC4	Los Angeles	Access	L.A.	On Anaheim St. at Nicholson Ave.	---	6/ 3/ 46	Oberg Bros.	Steel OH. & Apps.	317,460	---	317,460
51-14DC9-P	Los Angeles	FAS	---	Across San Gabriel Riv. on Spring St.	---	5/ 4/ 51	Chas. MacClosky Co.	R.C. Bridge	200,610	1,500	*202,110
14DC35	Los Angeles	751 FAS	---	Across N. Fork of San Gabriel River	---	4/ 9/ 48	Norman I. Fadel	Steel Bridge	364,823	3,605	*368,428
14DC24	Los Angeles	825 FAS	---	Across Santa Clara Riv. & S.P.R.R.	---	7/31/47	Bent Const. Co.	Steel Bridge	221,156	3,139	224,295
14DC51	Los Angeles	834 FAS	---	Across Compton Cr. Channel on Santa Fe Ave.	---	7/29/49	Geo. W. Peterson & Jack W. Baker	R.C. Bridge	185,812	428	186,240
14DC22	Los Angeles	838 FAS	---	Across Los Angeles Riv. at Florence Ave.	0.3	8/29/47	H. B. Nicholson	R.C. Bridge & Apps.	380,266	12,600	392,866
14DC64	Los Angeles	838 FAS	---	Across San Gabriel Riv. on Florence Ave.	---	1/20/50	Davies, Keusder, & Brown	R.C. Bridge	206,626	363	206,989
14DC58	Los Angeles	840 FAS	---	Across San Gabriel Riv. on Rosecrans Ave.	---	10/11/49	John Strona	R.C. Bridge	206,774	365	207,139
51-14DC8-P	Los Angeles	845 FAS	---	Across San Gabriel Riv. on Beverly Blvd.	---	3/27/51	Chas. MacClosky Co.	R.C. & Std. Br.	259,922	1,500	*261,422
14DC49	Los Angeles	849 FAS	---	Across Santa Fe Dam Outlet	---	4/14/49	C. B. Tuttle Co.	R.C. Bridge	64,829	510	65,339
14DC50	Los Angeles	852 FAS	---	Across San Gabriel River on Valley Blvd.	0.5	6/ 9/ 49	W. J. Disteli	Steel Br. & Apps.	574,588	2,455	577,043
---	Los Angeles	---	---	Various Locations	---	---	---	Minor Contracts & D.L. Projects	252,106	1,390	*253,496

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost.	Const. engr.	Total
6TC10F	Madera	4	A	Bet. San Joaquin Riv. & Arcolia School	7.1	1/15/48	Harnis Bros.	Grade & P.M.S.	\$974,094	\$74,565	\$1,048,659
52-6TC1	Madera	4	A, Mad	Bet. Cottonwood Cr. & the N.C.L. of Madera	4.1	4/ 2/51	P. J. Moore & Son	P.M.S.	80,289	9,500	*89,759
52-6TC2	Mad. Fre.	4	A, C; A, C	See Fresno County							
6T4	Madera	4	B, C	Bet. 7.8 Mi. N. of Madera & Merced Co. Line		4/19/46	Day Labor	Restore Oiled Borders	10,767	212	10,909
1-6TC16-F	Madera	4	B	Bet. N. of Dry Cr. & N. of Berenda	2.7	4/20/49	Guy F. Atkinson Co.	Grade, P.M.S. & R.C. Br.	336,082	30,295	366,347
1-6TC20	Madera	4	B, C	Bet. 0.9 Mi. N. of Berenda & Califa	4.1	6/10/50	Guy F. Atkinson Co.	Grade, P.C.C. on C.T.B., & P.M.S. on U.R.B.	442,046	59,000	*501,046
51-6TC3-F	Madera	4	B	Bet. 1.5 Mi. NW. of Madera & 0.3 Mi. N. of Dry Cr.	3.7	8/ 2/50	Guy F. Atkinson Co.	Grade, P.M.S., P.C.C., & R.C. Br.	393,117	53,000	*446,117
0-14TC44	Mad. Fre.	4	C, A	See Fresno County		6/28/50	R. O. Ferguson Co.	Lights	3,270	543	3,813
1-6TC21	Madera	4	C	At Califa Wye							
51-14TC16	Madera	32	A	Across Ash Cr. & Berenda Slough		10/ 3/50	Thomas Const. Co.	Repair & Surface 2 Timber Brs.	51,436	4,756	56,192
14DGT1	Madera	126	B	A.T. & S.F. Rwy. E. of Madera	0.6	3/26/48	Trewhitt-Shields & Fisher	Steel Underpass & Apps.	128,655	26,196	*154,851
51-6TC4-P	Madera	126	Mad	On Yosemite Ave. at D Street		8/31/50	Clinton Elec. Corp.	Signals & Lights	4,178	606	4,784
14DC16	Mad. Fre.	FAS		See Fresno County							
52-6DC3-P	Madera	811	FAS	On Firebaugh-Madera Rd., Bet. Firebaugh Br. & 3 Mi. E.	3.0	7/19/51	M. J. Ruddy & Son	Grade & R.M.S. on U.R.B.	86,387	10,780	*97,167
6DC12	Madera	FAS		Bet. Lincoln Rd. & State Rte. 32	5.5	7/28/48	Ted F. Baun	Grade & P.M.S.	77,032	10,582	87,614
14DC11	Madera	FAS		Across Fine Gold Creek	0.2	4/23/47	Dan Caputo	Steel Br. & Apps.	74,573	6,327	80,900
6DC20	Madera	FAS		Across Little Fine Gold Cr.	0.5	9/ 8/49	W. C. Lefever & D. Gerald Bing	R.C. Br. & B.S.T. on Apps.	37,698	5,637	43,335
51-14DC5-P	Madera	FAS		Across Kaiser Riv. & N. Fk. San Joaquin Riv.		11/20/50	C. C. Gildersleeve	2 R.C. Bridges	41,749	4,500	*46,249
	Madera			Various Locations				Minor Contracts & D.L. Projects	11,908		*11,908
4T34	Marin	1	A	At Ignacio Wye		6/ 5/46	Day Labor	Signals	8,265	431	8,696
4T54	Marin	1	A	At Grant Ave. in Novato		1/22/47	Day Labor	Signals & Lights	7,290	432	7,722

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
4TC21	Mtn. Son.	1	A, C	See Sonoma County	2.3	4/29/48	A. G. Ralsch Co.	Resurf. with P.M.S.	\$67,931	\$6,894	\$74,825
0-4TC31	Marin.	1	A, Srf	Bet. 1.6 Mi. N. of Novato & Ignacio							
1-4TC88	Marin.	1	CMad, C	Bet. Ignacio & Richardson Bay Br.	4.3	7/12/49	A. G. Ralsch Co.	P.M.S., Outer Hwy.	250,543	23,855	274,398
4TC33	Marin.	1	C	Bet. San Rafael & Waldo	2.1	4/16/47	Lee J. Immel	A.C.	70,744	4,832	75,576
4TC60	Marin.	1	C	At Greenbrae		6/23/48	Brown-Ely Co., Contrs.	Signals & Chnlz.	65,935	9,269	75,204
4TC119	Marin.	1	C	On Richardson Bay Br. No. 27-10		10/4/49	Day Labor	Repair Surf. of R.C. Br.	10,721		10,721
4TC120	Marin.	1	C	At Greenbrae Intersection		10/4/49	Day Labor	Reconstruct Intersection	7,193		7,193
4TC27	Marin.	1	D, C, A	Bet. Waldo & Ignacio	1.5	6/28/46	Brown-Ely Co.	Repair with A.C. & C.R.B. on Shldr.	64,196	4,876	69,072
0-4TTC3	Marin.	1	CMad	At Corte Madera Intrs.	0.2	10/14/48	Baldwin, Staub Corp.	Signals & Lights	25,817	5,765	31,582
4T29	Marin.	1	Srf, C	Bet. Sta. 97+90± & Sta. 42+50±		12/26/45	Day Labor	Guard Rail	5,034	8	5,042
14TC18	Marin.	1, Fdr	Srf	At Linden Lane		2/13/47	Parish Bros. & Lew Jones Const. Co.	R.C., Grade Separation & Apprs.	246,404	23,500	*269,904
51-4TC28	Marin.	1	Srf	S'y End of San Rafael Viaduct		2/16/51	S & Q Const. Co.	Pump House & Sump Pump	25,179	2,500	*27,679
14TC12	Marin.	8	A	Across Novato Cr. About 9 Mi. N. of San Rafael		7/17/46	William B. Willett Co.	Repair Bridge	5,752	516	6,268
0-4TC66	Marin.	8	A	Bet. Ignacio Wye & County Line	3.1	12/3/48	Parish Bros.	Grade & P.M.S.	369,064	44,618	413,682
1-4TC58	Marin.	8	A	Across Petaluma Cr.		4/1/49	Evans Const. Co.	Radeck Bridge	21,921	1,274	23,195
1-4TC104	Marin.	69	Srf, A	Bet. ½ Mi. & 1 Mi. E. of San Quentin Wye		5/23/50	Carey Bros. Const. Co.	Dike	11,485	1,573	13,058
4DC9	Marin.	FAS 879		Bet. Point Reyes Sta. & 9 Mi. W. of Novato	9.9	4/22/48	A. G. Ralsch Co.	Grade & P.M.S. on I.B.	216,669	15,410	232,079
	Marin.			Various Locations				Minor Contracts & D.L. Projects	41,192		*41,192
10T84	Mpa. Mer.	18	A, I, A	See Merced County							
51-10TC7	Mpa. Mer.	18	A, I, A	See Merced County							
52-10TC1	Mariposa	18	I	Bet. Cathay Jet. & 5 Mi. Ely	5.0	6/5/51	Munn & Perkins	P.M.S.	155,391	17,000	*172,391
10T72	Mariposa	110	B	Bet. Wly Boundary of Mariposa Co. & Coulterville	8.5	7/1/48	Day Labor	Grade & Surface	24,996	2,494	27,490
10DC12	Mariposa	FAS 965		Bet. Coulterville & 2 Mi. Northeastly	2.0	6/12/50	Paul E. Woof	Grade, I.B.M. & Pen. Tr.	60,734	10,330	*71,064

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
14DC26	Mariposa	FAS 966, 963		Bet. 17 Mi. W. of Mariposa & 12 Mi. E. of Mariposa.		9/18/47	E. H. Peterson & Son.	6 R.C. Bridges.	\$79,377	\$9,514	\$88,891
	Mariposa			Various Locations				Minor Contracts & D.L. Projects	11,883		*11,883
1TC15	Mendocino	1	B	Bet. Burke Hill & 1 Mi. N.	1.0	6/21/46	C. M. Syar	Repair with I.B.M. & P.M.S.	38,385	4,128	42,513
1TC19	Mendocino	1	B	Bet. Hopland & Crawford Ranch.	6.6	4/ 8/47	Clements & Co.	P.M.S. & Sl. Ct.	159,023	14,376	173,399
0-1TC24	Mendocino	1	C, D	Bet. 1.5 Mi. S. & 3.5 Mi. N. of Forsythe Cr.	5.2	4/14/48	Guy F. Atkinson Co.	Grade, P.M.S. on C.T.B. & Steel Br.	925,364	111,673	*1,037,037
1T73	Mendocino	1	D	About 14 Mi. N. of Ukiah.		10/ 4/49	Day Labor	Horizontal Pipe Drains.	8,971		8,971
1TC10	Mendocino	1	E	Bet. N.W.P.R.R. Underpass & 1.1 Mi. S. of Willis.	2.0	6/ 9/45	A. R. McEwen.	Repair with I.B. & P.M. B.M.	30,009	6,265	36,274
1TC14	Mendocino	1	E	Bet. Willis & 2.6 Mi. N'ly	2.6	5/10/46	C. M. Syar	P.M.S.	74,473	8,303	82,776
1TC16-F	Mendocino	1	E	Bet. N.W.P.R.R. Crossing & N.W.P.R.R. Underpass.	0.8	10/14/46	A. R. McEwen & C. M. Syar	Grade & P.M.S. on C.T.B.	145,670	24,479	170,149
52-1TC4	Mendocino	1	F	About 1¼ Mi. N. of Willis.		8/ 9/51	Harnes Bros.	Truck Scales & Apps.	26,550	4,300	*30,850
0-1TC22	Mendocino	1	H, I	Bet. 2.8 Mi. S. & 1.0 Mi. N. of Ratlesnake Summit.	3.8	4/ 1/48	C. M. Syar	Grade & P.M.S. on C.T.B.	117,317	13,137	130,454
1T67	Mendocino	1	H	Bet. Sta. 385+20 & Sta. 398+70.	0.3	3/ 3/49	Day Labor	Realignment.	7,892	366	8,258
1-1TC36	Mendocino	1	H	Bet. Sherwood Rd. & Sapp Cr.	8.4	4/ 1/49	Clements & Co.	P.M.S.	304,985	18,873	323,858
1TL8	Mendocino	1	I	Across Rattlesnake Cr.		9/18/47	Day Labor	Repair Bridge.	16,871		16,871
14TC35	Mendocino	1	J	Across Rock Cr.	0.6	1/26/48	H. W. Ruby.	Steel Br. & Apps.	174,688	14,782	189,470
1TC17-F	Mendocino	1	K	Bet. Red Mountain Cr. & Piercy	4.6	10/31/46	Oilfields Trucking Co. & Phoenix Const. Co.	Grade & P.M.S. on C.T.B.	787,803	88,017	875,820
1T38	Mendocino	1	K	Across Red Mountain Creek.		5/ 9/47	Day Labor	Repair Bridge.	11,904		11,904
14TC27	Mendocino	1	K	Across Red Mountain Cr. & McCoy Cr.		9/30/47	James H. McFarland	Repair 2 Bridges.	28,338	3,068	31,406
51-1TC8	Mendocino	1	Uki	Bet. Smith St. & Low Gap Road.	0.6	5/23/50	O. C. Jones & Son.	Grade, P.C.C., P.M.S. & Conc. Struc.	231,139	35,626	266,765
51-1TC9	Mendocino	1	Wlks	Bet. S.C.L. & N.C.L.	1.6	8/21/50	Harnes Bros. & C. M. Syar	P.M.S.	150,788	26,350	*177,138

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
1780	Mendocino	15	A	Across Russian River	---	11/22/50	Day Labor	Repair Steel Br.	7,241	---	*\$7,241
147LC9	Mendocino	16	A	Across Dooley Cr., 1 Mi. E. of Hopland	---	4/22/46	F. Fredenburg	R.C. Br. & Apps.	\$41,367	\$4,547	45,914
1WLC5	Mendocino	48	A	At Red Bank Cr. & Lost Cr.	0.4	9/16/46	C. M. Syar	Grade & I.B.M.	31,336	5,410	36,746
1-1TC37	Mendocino	48	A	Bet. Maple Cr. & 1.2 Mi. E. of	1.2	5/20/49	A. R. McEwen	Grade & P.M.S.	118,286	21,822	140,108
51-14TC8	Mendocino	48	A	At Whitehall Cr. & Burger Cattlepass	0.2	6/5/50	Kenneth Whited	R.C. Culv., Cattlepass & Apps.	15,685	3,128	18,813
1W24	Mendocino	48	B	Across Anderson Cr., Br. No. 10-64	---	5/10/46	Day Labor	Repair Timber Br.	7,981	7	7,988
52-14TC1	Mendocino	48	B	Across Mill Cr., About 11 Mi. NW. of Boonville	---	4/ 1/52	R. E. Hertel	Repair portion of Timber Truss Br.	16,917	3,200	*20,117
14TC29-P	Mendocino	48, 56	C, CD	Across Navarro Riv., 4 Mi. S. of Albion	0.8	11/ 6/47	Johnson Rock Co.	Steel Br. & Apps.	330,685	50,517	381,202
1WLC4	Mendocino	56	A	At Slick Rock Cr.	1.0	5/16/46	Piombo Bros. & Co.	Grade & I.B.M.	118,949	17,029	135,978
0-1TC26	Mendocino	56	A	At St. Ores Cr., About 11.5 Mi. S. of Point Arena	0.5	5/ 5/48	Arthur B. Siri, Inc. & Baldwin-Straub Corp.	Grade, P.M.S. & Culverts	72,056	12,703	84,759
51-1TC1	Mendocino	56	A	Bet. Bacon Gulch & 0.3 Mi. N. of Signal Port Cr.	0.8	4/ 1/50	Arthur B. Siri, Inc.	Grade & R.M.S. on I.B.M.	108,022	21,050	*129,072
1WLC3	Mendocino	56	B	At Alder Cr. About 7 Mi. N. of Point Arena	1.2	9/24/45	Guerin Bros.	Grade, Sl. Ct. & Std. Br.	198,762	50,140	228,902
51-14TC6	Mendocino	56	B	Across Mallo Pass Creek	---	5/ 5/50	Reed & Tuttle	Repair Timber Br.	20,308	6,234	26,542
1WC8	Mendocino	56	D	Bet. Navarro River & Mendocino	1.9	6/26/45	W. C. Railing	Repair with I.B.M. & Sl. Ct.	29,789	2,213	32,002
0-14TC65	Mendocino	56	D	Across Big River	---	5/ 5/49	Metzger Company	Repair Bridge	81,105	5,076	86,181
1-14TC69-F	Mendocino	56	D	Across Salmon Cr., 0.6 Mi. S. of Albion	---	6/22/49	Judson-Pacific-Murphy Corp.	Steel Truss Br.	329,281	31,882	361,163
51-1TC2	Mendocino	56	D	At Salmon Cr., 0.6 Mi. S. of Albion	1.0	4/ 1/50	Arthur B. Siri, Inc.	Grade & R.M.S. on C.T.B. & Sl. Cts. on Br. Apps.	110,488	21,700	*132,188
14WLC38	Mendocino	56	E	Bet. Bromley Cr. & Fort Bragg	---	10/25/46	Guy F. Atkinson Co.	2 R.C. Brs. Grade & P.M.S.	944,093	91,179	1,035,272
14WLC56-F	Mendocino	56	E	Across Noyo River	3.8	6/27/47	J. H. Pomeroy & Co., Inc.	Steel Br. Superstructure	449,211	18,886	468,097
1WLC1	Mendocino	56	F	At Chadburn Cr., About 13.4 Mi. N. of Fort Bragg	0.2	7/ 6/45	John Burnan & Sons	Grade, I.B.M. Sl. Ct. & Culv.	19,313	3,476	22,789
1WLC2	Mendocino	56	F	At Blue Slide Gulch	0.2	8/28/45	John Burnan & Sons	Grade Surf. & R.C. Bridge	70,324	11,516	81,840
1WLC7	Mendocino	56	F	At Kibbeshiah Creek	0.5	6/27/47	Arthur B. Siri	Grade & R.M.S.	70,051	9,782	79,833
0-1TC28	Mendocino	56	F	At Virgin Creek	0.3	6/ 7/48	John Burnan & Sons	Grade, R.M.S. & Repair R.C. Br.	56,364	8,685	65,049
1771	Mendocino	56	F	Vicinity of Ten Mile River	---	8/23/49	Day Labor	Truck Scales	6,985	---	6,985

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
1TMC1	Mendocino	56	FBg	Bet. S.C.L. of Fort Bragg & Oak St.	0.2	6/ 8/48	Arthur B. Siri, Inc.	Grade & P.M.S.	\$16,837		\$16,837
52-1TC2	Mendocino	70	A	Across Middle Cr., 1.5 Mi. E. of Ukiah		5/16/51	Arthur B. Siri, Inc.	Widen R.C. Br. & R.M.S. on C.T.B. on Apprs.	35,365	\$6,330	*41,695
1DC3	Mendocino	FAS 505		On Longvale-Covelo Rd., Bet. 1.5 Mi. & 5.4 Mi. E'ly. of Dos Rios.	2.9	3/26/47	N. M. Ball Sons.	Grade.	179,634	18,524	198,158
14DC30	Mendocino	FAS 979		Across Morrison Cr., S. of Ukiah.		11/ 5/47	Kenneth Whited.	R.C. Bridge.	13,544	534	14,078
1DC10	Mendocino	FAS 979		Bet. Rte. 1 & Rte. 70	10.4	4/ 1/49	Nevada Constructors, Inc.	Grade, Prime & Sl. Ct.	176,932	18,979	195,911
1-1DC11	Mendocino	FAS 979		Bet. Rte. 16 at Old Hopland & Largo	4.0	6/28/50	John Burman & Sons	Grade, Prime & Sl. Cts.	88,784	12,862	101,646
14DC36	Mendocino	FAS 982		Across Chamberlain Creek		5/25/48	Evans Const. Co.	R.C. Bridge	27,181	855	28,036
1DC9	Mendocino	FAS 982		Bet. 5.8 Mi. & 7.4 Mi. E. of Noyo	1.6	8/ 5/48	A. G. Raich Co., & Starling & Galbraith	Grade, I.B.M. & Pen. Tr.	81,109	10,545	91,654
51-1DC1	Mendocino	FAS 982		Bet. 14 Mi. & 10 Mi. W'ly. of Willits	4.0	8/14/50	John Burman & Sons	Grade & C.M.P.	107,357	12,142	119,499
	Mendocino			Various Locations				Minor Contracts & D.L. Projects	61,167		*61,167
10TC25	Merced	4	A	0.4 Mi. S. of Merced		4/24/46	Day Labor	Improve Intersection	6,344	483	6,827
0-10TC31	Mer. Sta.	4	A, C, A, B	Bet. Madera Co. Line & Salida		4/ 9/48	Louis Bissotti & Son	Barrier Post.	48,560	4,512	53,072
51-10TC6	Mer. Sta.	4	A, C, B, C, D, L'vtn	Bet. Atwater & Hatch Road		4/29/50	Stephen L. Vistica	Roadside Planting	12,914	1,455	14,369
1-10TC81-F	Merced	4	A	Bet. Dutchman Cr. & Lingard	9.9	6/10/50	Guy F. Atkinson Co.	Grade, P.M.S., P.C.C., & R.C. Br.	757,436	85,300	*842,736
10TC11	Merced	4	C	Bet. Black Rascal Canal & Buhach Sta.	3.8	4/ 9/46	Gunner Corp.	Grade, P.C.C. & 4 Conc. Brs.	414,463	62,384	476,847
0-10TC38-P	Merced	4	C, D, L'vtn	Bet. Atwater & Livingston	5.7	9/ 8/48	Guy F. Atkinson Co.	Grade, P.C.C. & P.M.S.	604,233	46,681	650,914
10TC19-P	Mer. Sta.	4, 110	D, C	Bet. 3 Mi. N. of Livingston & Stanislaus Co. Line & Bet. Motoso & Empire	8.9	5/16/47	M. J. Ruddy & Son	P.M.S.	67,914	4,650	72,564
1-10TC44	Mer. Sta.	4	D, A, C, B	Bet. Merced Riv. & Delhi & Bet. Merced Co. Line & Hatch Crossing	10.9	4/ 1/49	M. J. Ruddy & Son	P.M.S.	88,541	11,174	89,715
51-10TC16-F	Mer. Sta.	4	D, A	Bet. Merced Riv. Br. & Turlock Off.	5.6	3/19/51	United Conc. Pipe Corp.	Grade & P.C.C. on C.T.S.	744,696	82,000	*826,696
52-10TC14	Mer. Sta.	4	D, A	At Intrs. Rte. 4 with 31 Captain Way, Johnson St. & Golf Rd.		12/18/51	L. H. Leonardi Elec. Const. Co.	Signals & Lights	23,753	2,400	*26,153

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
10TC13	Merced	4	Atw, C	Bet. Atwater & 2 Mi. N.	3.2	5/27/47	Gunner Corp.	Repair with P.M.S.	\$64,642	\$5,336	\$69,978
0-10TC41	Merced	4	Lvtn	At Cressy Way	---	12/ 4/48	R. Gould & Son.	Signals & Lights	16,015	559	16,574
10TC28	Merced	4	Mer	On 16th St. in Merced	---	2/20/48	R. Gould & Son.	Signals	6,123	426	6,549
52-10TC3-P	Merced	4	Mer	At G Street	---	6/28/51	L. H. Leonard Elc. Const. Co.	Signals & Lights	7,223	700	*7,923
10TC17	Merced	18	A	Bet. Planada & 5.3 Mi. E.	5.3	4/22/47	M. J. Ruddy & Son.	P.M.S.	84,524	7,742	92,266
51-10TC7	Mer, Mpa	18	A,A,I	Bet. 1.7 Mi. W. of Mariposa Co. Line & Cathay Jct.	---	5/31/50	Rice Bros., Inc.	P.M.S.	162,463	11,204	173,667
10T84	Mer, Mpa	18	A, A, I	Bet. 1.6 Mi. W. of Mariposa Co. Line & Cathay Jct.	8.7	5/25/51	Day Labor	Seal Coat	7,261	---	*7,261
14TC47	Merced	32	A, B	Across San Luis Creek	0.7	6/23/48	Granite Const. Co.	R.C. Bridge & Apps.	119,705	11,489	131,194
51-10TC1	Merced	32	A	Bet. Santa Clara Co. Line & 3.5 Mi. E'ly.	3.5	8/30/50	Munn & Perkins	Widen & P.M.S.	130,765	18,500	*149,265
10WC33	Merced	32	B	At Sta. 344+08	---	4/25/46	Day Labor	Widen Culvert	927	21	948
1-10TC42	Merced	32	B	Bet. Highline Canal & Los Banos	2.0	4/ 1/49	Granite Const. Co.	P.M.S.	51,183	1,322	52,505
1-10TC56	Merced	32	B	Bet. San Luis Cr. & Highline Canal (por.)	4.4	9/15/49	M. J. Ruddy & Son.	P.M.S. & Shoulders	101,432	9,546	110,978
10WC12	Merced	32	C	Bet. San Joaquin Riv. & Madera Co. Line	3.0	6/21/46	Frank B. Marks & Sons	Repair with P.M.S. on U.R.B.	84,316	5,515	89,831
51-10TC3	Merced	32	C	Bet. 10.4 Mi. E. of Los Banos & San Joaquin Riv.	5.3	4/ 1/50	Valley Pav. & Const. Co.	P.M.S.	174,174	14,473	188,647
14DGT14	Merced	41	B	At S.P.R.R. Crossings at Trent & at Volta.	---	12/30/49	Day Labor	Flashing Signals	7,768	---	7,768
14WLC34	Merced	122	A	Across Mud Slough & Garzas Cr.	---	6/25/46	Dan Caputo	R.C. Br. & Culv.	48,486	7,166	55,652
51-14TC4	Merced	122	A	Across San Joaquin Riv., About 6 Mi. E. of Gustine	---	4/12/50	H. W. Ruby	R.C. Br. & Apps.	100,395	12,211	112,606
0-10TC37	Merced	122	Gus, A	Bet. Gustine & San Joaquin Riv.	2.7	8/25/48	Elmer J. Warner	Grade & P.M.S.	124,375	1,258	125,633
0-10TC49	Merced	123	B	Bet. Cox Ferry Br. & Snelling	6.3	6/ 1/49	River Rock, Inc.	Widen & P.M.S. on Shldr.	39,406	3,061	42,467
10DC4	Merced	EAS 914 957	---	Three Locations	18.7	7/ 8/48	Frank B. Marks & Son.	P.M.S. on C.T.B.	206,428	12,192	218,620
1-14DC62-P	Merced	1058 EAS 914 1058	---	Various Locations N. of Hilmar & Atwater	---	1/ 6/50	Kenneth Brown & F. Kaus	Widen 5 R.C. Brgs.	14,740	1,572	16,312

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
14DC50-P	Merced	FAS 919		Across Dry Creek 7 Mi. S. of La Grange.		11/23/49	C. C. Gildersleeve	Timber Bridge	\$15,782	\$2,480	\$18,262
52-10DC1-P	Merced	FAS 919		Bet. Snelling & Stanislaus Co. Line	6.4	7/27/51	United Conc. Pipe Corp.	Grade & B.S.T.	146,000	10,000	*156,000
10DC8	Merced	FAS 1170		Bet. Los Banos & Pipe Line Road	8.7	8/22/49	Covina Const. Co.	Grade, P.M.S. & Widen Conc. Br.	161,696	20,641	182,337
	Merced			Various Locations				Minor Contracts & D.L. Projects	34,394		*34,394
2744	Modoc	28	A, B	Bet. Adin & Alturas		5/28/47	Honor Camp Labor	Widen Conc. Struct.	52,035	3,947	55,982
27C21-P	Modoc	28, 210	A, A	Bet. Lassen Co. Line & Casby	20.8	4/16/47	Harna Bros.	Base & Sl. Ct.	158,856	14,001	172,857
14TC46	Modoc	28	A	Across North Fork of Ash Creek		6/11/48	Evans Const. Co.	Widen R.C. Bridge	7,954	1,099	9,053
1-2TC39	Modoc	28	B, Alt	Bet. Chambers Ranch & Alturas	10.6	8/31/49	Clements & Co.	Resurf. with P.M.S.	263,037	21,205	284,242
1-2TC34	Modoc	28	C	Bet. Toms Creek & Cedarville	8.1	5/24/49	R. B. Guerin & Co.	Grade	639,844	73,000	*712,844
51-2TC1-P	Modoc	28	C	Bet. Toms Creek & Cedarville	8.0	4/15/50	Rand Const. Co., Inc.	Grade & P.M.S. on C.T.B.	306,950	30,880	337,830
51-2TC7	Modoc	28	C	In Cedarville	0.8	7/6/50	Rand Const. Co., Inc.	Conc. Curbs & Gutters	13,339	1,411	14,750
52-2TC2	Modoc	28	C	Bet. Toms Cr. & Cedarville	8.9	7/31/51	Morgan Const. Co.	Seal Coat	16,802	2,400	*19,202
2WC2	Mod. Las.	28, 73 210	Various	See Lassen County							
2W16	Modoc	73	A, B	Bet. Rte. 28 & Oregon State Line	16.2	3/13/46	Honor Camp Labor	Grade & Pave.	509,994	25,635	535,629
2771	Modoc	73	A, B	Bet. Rte. 28 & Oregon State Line (por.)	33.8	7/1/48	Honor Camp Labor	Grade	249,944	17,248	267,192
2776	Modoc	73	A, B	Bet. Davis Cr. & Oregon State Line	18.8	7/1/49	Day Labor	Prime & Sl. Ct.	19,076		19,076
2777	Modoc	73	A, B	Bet. Rte. 28 & Oregon State Line	33.8	7/1/49	Honor Camp Labor	Grade	279,992	23,171	*303,163
2779	Modoc	73	A, B	Bet. Rte. 28 & Oregon State Line	33.8	6/30/50	Honor Camp Labor	Grade	299,966	23,571	323,537
51-2TC8	Modoc	73	A, B	Bet. N. of Davis Cr. School & Oregon State Line	16.5	9/1/50	Rand Const. Co., Inc.	R.M.S. & Sl. Ct.	22,741	2,654	25,395
52-2TC10	Modoc	73	A, B	Bet. Rte. 28 & Oregon State Line		7/2/51	Honor Camp Labor	Grade	299,859	24,590	*324,449
2TC2	Modoc	73	B	Bet. Sta. 448+50 & 848+00	7.6	10/11/48	Day Labor	Oil	7,981		7,981
14WLC57	Modoc	73	C	Across S. Fork of Pit Riv. at Likely		6/26/47	T. A. Kvale	R.C. Bridge	32,062	6,781	38,843
2DC5-P	Mod. Sis.	210 FAS 753	B, A	Bet. Rte. 72 & 4 Mi. W. of Hatfield & Bet. 2.4 Mi. N. of Stronghold & Oregon State Line	22.8	5/1/47	Fairey-Hammond, Inc. & R. A. Farish	P.M.S. & Sl. Ct.	176,122	17,624	193,746
2TC3	Modoc	210	B	At Station 2152+31.7		10/19/48	Day Labor	R.C. Culvert	7,757	1,117	8,874

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
2DC2	Modoc	FAS 513	B, C, D	Bet. Eagleville & 4 Mi. N. of Lake City	29.5	5/23/46	E. D. Bishop & D. Gerald Bing	Grade & P. M. S.	\$404,775	\$42,373	\$447,148
2DC9	Mod. Lass	FAS 988		See Lassen County							
	Modoc			Various Locations							
9X7	Mono	13	A	Bet. Mi. 10.0 & Mi. 12.8	2.8	3/20/47	Day Labor	Minor Contracts & D.L. Projects	8,437	159	*8,596
9V11	Mono	23	A, B	Bet. Mi. 1.00 "A" & Mi. 3.65 "B"	8.4	3/13/47	Day Labor	Widen & Resurface	5,353		5,353
9V14	Mono	23	A	Across Rock Creek		5/ 1/47	Day Labor	B.S.T.	12,442		12,442
51-9VC11	Mono	23	B	At Cadillac Curve, About 1.5 Mi. S. of of Tom's Place.	0.3	4/20/51	Conrad Const. Co., Inc.	Culvert & Apps.	5,392		5,392
51-9VC10	Mono	23	D	Bet. 0.8 Mi. & 1.6 Mi. N. of McGee Cr.	0.8	10/31/50	Conrad Const. Co., Inc.	Grade & R.M.S.	14,383	4,200	*18,583
9VC7	Mono	23	I	Bet. Point Ranch & Bridgeport	2.8	5/ 1/47	Geo. E. France	Grade & R.M.S.	42,952	6,000	*48,952
51-9VC3	Mono	23	I	Bet. Conway Summit & Bodie Road	6.1	5/ 8/50	Harms Bros.	Repair with P.M.S.	40,379	5,091	45,470
52-9V11	Mono	23	I	In Town of Bridgeport	0.4	7/18/51	Day Labor	P.M.S. on C.T.B.	127,206	11,204	138,410
52-9VC6	Mono	23	J	Bet. Dressler's Corner & 1.1 Mi. N. of Fales Hot Springs	12.0	4/28/51	Oilfields Trucking Co. & Phoenix Const. Co., Inc.	Shoulders	14,837	748	*15,585
51-9BC1-F	Mono	23	K	Bet. 5 Mi. N. of Sonora Jct. & Antelope Valley	2.7	6/23/51	R. P. Shea Co.	Widen & R.M.S. on I.B.M.	46,155	7,700	*53,855
9VC24	Mono	40	A	Bet. Sta. 0+00 & Sta. 133+00	2.5	7/21/48	Day Labor	Grade & R.M.S. on I.B.M.	204,742	15,163	*219,905
9X8	Mono	40	B	Bet. Mi. 0.0 & Mi. 3.4	3.4	3/20/47	Day Labor	Widen & Resurface	56,211	2,695	58,906
9XC3	Mono	40	C	Bet. Rte. 23 & Sheep Corral	6.3	6/28/46	Geo. E. France	Widen & Resurface	12,684		12,684
0-9VC12	Mono	40	D	Bet. Sheep Corral & Adobe Creek	16.0	5/ 6/48	Oilfields Trucking Co. & Phoenix Const. Co.	R.M.S.	21,496	2,888	24,384
1-9VC20	Mono	76	A, B	Bet. S. Co. Line & Benton Sta.	8.7	5/11/49	Arthur A. Johnson	Resurf. with B.S.T.	47,402	3,826	51,228
0-9VC14	Mono	95	A	Bet. 7 Mi. N. of Coleville & Nev. State Line	2.2	6/ 8/48	Westbrook & Pope	R.M.S.	60,280	5,752	66,032
51-9VC7	Mono	95	A	Bet. Rte. 23 & Topaz Lake	9.3	5/18/50	Harms Bros.	Grade & R.M.S. on I.B.M.	119,495	15,671	135,166
								Grade & R.M.S. on I.B.M.	56,798	8,196	64,994

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
9V27	Mono-----	96	A	Bet. 4.9 Mi. N. of Rte. 23 & Nev. State Line-----	6.3	7/ 1/49	Day Labor-----	Grade, Surf. & Drainage Facilities-----	\$14,999	\$1,086	\$16,085
51-9VC2	Mono-----	111	A	Bet. 1 Mi. N. of Grant Lake & Jct. with Rte. 23-----	1.5	4/28/50	Westbrook & Pope-----	Grade & R.M.S.-----	24,993	4,526	29,519
1-9DC10-P	Mono-----	FAS 959		Bet. 0.4 & 4.2 Mi. W. of U.S. Rte. 395-----	3.6	1/17/50	Westbrook & Pope-----	Grade & Drainage Facilities-----	83,537	9,482	93,019
52-9DC2-P	Mono-----	FAS 959		Bet. Alpine Co. Line & U.S. Rte. 395 (por)-----	4.0	8/16/51	C. V. Kenworthy-----	Grade & Drainage Strcuts-----	146,214	11,000	*157,214
9DC7	Mono-----	FAS 1092		Bet. State Rte. 23 & 10.5 Mi. E'ly-----	10.8	6/ 8/48	Browne & Krull-----	Grade, L.B. & Pen. Tr-----	43,091	7,061	50,152
9DC2	Mono-----	FAS 1093		On Twin Lakes Rd. near Bridgeport-----	3.9	6/30/47	Dix-Syl Const. Co., Inc.-	Grade & B.S.T-----	45,443	7,981	53,424
9DC3	Mono-----	FAS 1094		Near Coleville-----	3.4	8/29/47	Nevada Constructors, Inc.-	Grade, Pen. Tr. & Timber Br.-	53,294	7,878	61,172
52-14DC8-P	Mono-----	FAS 1094		Across W. Walker Riv., near Coleville-----		9/ 5/51	E. H. Peterson & Son-----	Steel Bridge-----	59,732	1,300	*61,032
	Mono-----			Various Locations-----				Minor Contracts & D.L. Projects-----	7,155		*7,155
5TC5 5WC4	Monterey----- Monterey-----	2 2, 118, 56	B B, A, J	Bet. 2 Mi. S. of Salinas & Salinas----- Bet. Chualar & 3 Mi. N.; Bet. Salinas & Castroville Jct.; Bet. Werner Hill & Watsonville Jct.-----	1.9	3/19/46	Granite Construction Co.-	Grade & A.C-----	208,926	27,880	236,806
51-5TC2 51-5TC6	Monterey----- Monterey-----	2 2	B B	Bet. Spence UP. & 2 Mi. S. of Salinas----- At Sanborn Road ½ Mi. S. of Salinas-----	3.7 0.1	5/ 1/47 4/ 6/50 12/ 5/50	Granite Const. Co.- Granite Const. Co.- Granite Const. Co.-	P.M.S.- Grade & P.M.S. & B.S.T.- P.M.S., Acceleration & Deceleration Lane-----	23,071 183,645 10,316	995 30,000 3,500	24,016 *213,645 *13,816
52-5TC2-F	Monterey-----	2	B	Bet. Chualar & Spence UP-----	5.2	4/11/51	Fredrickson & Watson Const. Co.-	Grade & P.C.C-----	543,699	63,000	*606,699
51-5TC1	Monterey-----	2	C	Bet. Gonzales & Chualar-----	4.9	4/ 1/50	Rice Bros., Inc.-	Resurf. with P.M.S.-	84,035	6,632	90,667
0-5TC10 1-5TC12	Monterey----- Monterey-----	2 2	G, F G, F	Bet. San Ardo & King City----- Bet. San Ardo & King City-----	3.6 4.0	4/22/48 5/19/49	Granite Const. Co.- Fredericksen & Kasler-----	Base & P.M.S.- P.M.S.-	202,626 179,492	17,098 19,006	219,724 198,498
5TC4	Monterey-----	2	J	Bet. Santa Rita & 0.8 Mi. N. of Crazy Horse Summit-----	8.4	1/14/46	A. Teichert & Son, Inc.-	Grade & P.M.S.-	745,257	66,643	811,900
5TC7-F	Mon, Sbt-----	2	J, B	Bet. 0.8 Mi. N. of Crazy Horse Summit & Chittenden Rd-----	6.7	10/16/46	A. Teichert & Son, Inc.-	Grade & P.M.S.-	740,405	63,346	803,751

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost.	Const. engr.	Total
5T23	Monterey	2	J	Bet. Sta. 534+80 & Sta. 546+50		7/29/48	Day Labor	Outer Highway	\$13,937		\$13,937
1-5TC14	Monterey	2, 117	Sal	Bet. S.C.L. of Salinas & S. Main St.	0.8	8/ 3/49	Ted. F. Baun	Grade & P.M.S.	184,351	\$23,071	207,422
51-5TC4	Monterey	2, 117	Sal	Various Locations in Salinas		6/29/50	R. Flatland	Signals	16,438	953	17,391
0-5TC11	Monterey	56	A	Across Salmon Creek		8/ 9/48	Matthew & Jorgenson	R.C. Culvert & Apps.	91,806	10,156	101,962
1-5TC15	Monterey	56	A	At White Creek, 16 Mi. N. of San Simeon.		11/ 2/49	W. M. Lyles Co.	Drainage System	25,069	2,855	27,924
0-14TC42	Monterey	56	B	Across Prewitt Creek		5/24/48	Chas. O. Bodenhamer	Repair Timber Br.	18,737	2,886	21,623
1-14TC79	Monterey	56	B,C,D,E	Bet. San Simeon & Carmel		9/ 8/49	William Radtke & Son	Repair 5 Bridges	145,682	12,600	*158,282
51-14TC19	Monterey	56	B, A	Across Willow Creek & Villa Cr.		10/24/50	E. G. Perham	Repair 2 Timber Brs.	60,367	7,500	*67,867
5W14	Monterey	56	F	At Sta. 395+46		4/15/48	Day Labor	Replace Br. with R.C. Culv.	5,700		5,700
0-14TC49-P	Monterey	56	F, G	Bet. 15 & 26 Mi. S. of Monterey		6/23/48	C. O. Bodenhamer	6 R.C. Culverts	28,094	3,307	31,401
52-5TC4	Monterey	56	I	At Intra. of Fremont St. with Broadway, in Town of Seaside		8/20/51	Howard Ele. Co.	Signals, Lights & Chnlz.	19,932	1,963	*21,895
1-14TC78	Mon, SCR	56	J, Wat	Bet. Watsonville Jet. & Front St. in Watsonville	0.9	9/29/49	Dan Caputo & Edward Keeble	Grade, P.M.S. on C.R.B., Std. Br., Signals & Lights	484,730	64,500	*549,230
52-5TC1	Monterey	56	J	Bet. Moss Landing & 2 Mi. S. of Watsonville Airport	2.1	4/ 2/51	Leo F. Piazza Paving Co.	P.M.S.	36,856	5,200	*42,056
51-5TC5	Monterey	56, 117	Mon	At Del Monte Jet.		7/26/50	L. H. Leonardi Ele. Const. Co.	Lights	3,846	472	4,318
5WC3	Monterey	117, 56	A, I	Bet. Del Monte Jet. & Seaside Jet.	3.0	6/28/46	N. M. Ball Sons	Grade & P.M.S.	471,166	56,480	527,646
1-5TTC1	Monterey	117	Sal	At Romie Lane		6/ 5/50	Eite-Hokin & Galvan	Signals	10,841	894	11,735
52-5YC2-P	Mon, S.B, SLO	Var	Var	See Santa Barbara County							
51-5DC3	Monterey	FAS 503		On Old Toll Rd. at Elkhorn Slough	0.5	4/ 2/51	Edward Keeble	Grade & C.M.P. Culvs.	57,598	7,000	*64,598
5DC5	Monterey	FAS 505		E. of Pajaro on San Juan-Watsonville Rd.	1.6	8/ 4/48	Granite Const. Co.	Grade & P.M.S.	118,556	13,184	131,740
5DC12-P	Monterey	FAS 601		Bet. Robinson Canyon Rd. & Los Laureles Rd.	3.7	12/14/49	John G. Mehren	Grade & P.M.S.	178,500	5,815	184,315
51-5DC1-P	Monterey	FAS 601		Bet. Rte. 56 & Robinson Canyon Rd.	5.8	12/15/50	Nevada Constructors Inc. (Granite Const. Co.)	Grade & Sl. Ct.	136,815	8,285	*145,100

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
5DC8	Monterey	FAS 662		Bet. E.C.L. of Monterey & Seaside Jct.	2.7	7/12/49	Granite Const. Co.	Grade & P.M.S.	\$241,794	\$21,513	\$263,307
14DC25	Monterey	FAS 1084		On Sanborn Rd. at S.P.R.R. Tracks		9/18/47	Dan Caputo	Steel Overhead	180,249	2,012	182,261
	Monterey			Various Locations				Minor Contracts & D.L. Projects	51,056		*51,056
4X27	Napa	6	A	Bet. Mi. 2.7 & Mi. 3.6	0.9	4/22/46	Day Labor	Base & Resurf. with P.M.S.	9,973		9,973
52-4TC1	Napa	6	A	Bet. 6.5 Mi. & 6.8 Mi. E. of the E.C.L. of Napa	0.3	5/21/51	C. M. Syar	Grade & Sl. Ct.	26,867	3,200	*30,067
14TC15	Napa	7	A	At Farm Rd. UC. 4 Mi. N. of Vallejo		8/ 9/46	Minton & Kubon	Reconstruct R.C. Undercrossing	11,952	942	12,894
1-10TC36-F	Nap, Sol	7	A, H	Bet. 1 Mi. W. of Napa Co. Line & Cordella Underpass	4.6	7/17/48	Parish Bros.	Grade	581,857	39,484	621,341
1-10TC53-F	Nap, Sol	7	A, H	Bet. ¼ Mi. W. of Napa Co. Line & Cordella Underpass	4.2	8/17/49	Parish Bros.	P.C.C.	299,267	28,849	328,116
1-4TC98	Napa	8, 49	A,D,Nap, B	Bet. Foster Rd. & Union Station	3.1	1/10/50	Fredrickson Bros.	Grade & P.M.S. on C.R.B.	293,249	36,901	330,150
1-4TC103-F	Napa	8	B	At Intrs. with FAS 776 & Imola Ave.		5/24/50	Fredrickson Bros.	Signals, Lights & Chnlz.	63,518	4,148	73,666
1WLC6	Nap, Lak	49	A, A	Bet. 0.1 Mi. S'ly & 1.5 Mi. N'ly of Napa-Lake Co. Line	0.8	3/24/47	Piombo Const. Co.	Grade, R.M.S. & 2 R.C. Brs.	212,462	20,343	232,805
4T111	Napa	49	A	Bet. N. of Calistoga & Lake Co. Line	6.0	8/11/48	Day Labor	Resurf. with P.M.S.	49,300	2,000	*51,300
51-4TC9	Napa	49	A	Bet. 1.5 & 4.5 Mi. S. of Lake Co. Line	2.0	7/26/50	C. M. Syar	R.M.S. on C.R.B.	57,505	9,250	*66,755
1-4TC71	Napa	49	D	Across Napa Cr. near W.C.L. of Napa		7/12/49	Dan Caputo	R.C. Br. & Apps.	38,754	3,352	42,106
51-4TC13-P	Napa	49	Cstrg	Bet. Napa Riv. & Foothill Blvd.	0.1	8/22/50	Harold Smith	Resurf. with P.M.S. & Drainage Facilities	17,096	1,830	18,926
4TT138	Napa	49	SHla	Bet. Elmhurst St. & Pratt Ave.		12/13/49	Day Labor	Improve Street	7,097		7,097
0-4TC73	Napa	74, 8	A, B	Bet. Kelly Curve & Glass House Curve & Bet. Rte. 74 & Napa Wye	2.4	11/ 5/48	Fredrickson Bros.	Grade, P.C.C. & P.M.S.	301,442	35,116	336,558
4DC6	Napa	FAS 607		On Silverado Trail, Bet. 4 Mi. NW. of Napa & Calistoga	4.7	5/ 1/47	Geo. E. Murray	Grade, Armor Ct. & R.C. Br.	95,979	2,014	97,993
52-4DC5	Napa	FAS 607		On Silverado Trail, Bet. Stedinger Lane & St. Hwy. Rte. 102 at Conn Cr.	1.9	9/ 4/51	E. A. Forde	B.S.T. on I.B.M.	47,373	800	*48,173

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost.	Const. engr.	Total
4LC12	Napa	FAS 776		Bet. Intrs. of Rte. 8-B with Inola Ave. & Inrs. of Rte. 8-A with Foster Rd. & on S. Jefferson to S.C.L. of Napa.	1.7	11/22/48	A. Teichert & Son, Inc.	Grade & P.M.S.	\$114,734	\$6,702	\$121,536
52-4DC6	Napa	FAS 776		Inola Ave. W. Bet. Napa State Hospital & 1.3 Mi. W.	1.3	9/ 4/51	E. A. Forde	P.M.S. on C.R.B.	27,567	540	28,107
14DC68-P	Napa	FAS 1165		Across Conn Cr., 1 Mi. NE. of Yountville.		4/12/50	W. E. Thomas Const. Co.	Widen Masonry Arch Br.	11,800	435	12,235
	Napa			Various Locations.				Minor Contracts & D.L. Projects	34,007		34,007
1-3TC63	Nevada	15	A	At Squirrel Cr. 5 Mi. W. of Grass Valley.	0.1	6/22/49	Miles & Bailey	Grade, B.S.T. & Plate Culvs.	28,907	3,154	32,061
3TC41-F	Nevada	17	B	Bet. 0.5 Mi. N. of Rattlesnake Cr. & Grass Valley	3.8	10/22/47	Fredrickson Bros.	P.M.S. on C.R.B.	350,170	42,250	392,420
3758	Nevada	25	NevC, A	Bet. Nevada City & 1.75 Mi. NW.	1.7	10/29/46	Day Labor	Grade	35,762	2,414	38,176
3TC38	Nevada	25	NevC, A	Bet. E. Broad St. in Nevada City & 2 Mi. Northwesterly	1.9	6/26/47	J. Henry Harris	B.S.T.	52,681	5,559	58,240
3791	Nev. Pla.	37, 38	B, C, D	See Placer County							
3TC45	Nevada		B, C, A	Three Locations	3.7	12/12/47	H. Earl Parker, Inc.	Grade & P.M.S. on I.B. & C.R.B.	179,475	18,718	198,193
3WC9	Nev. Pla.	38	A, B, C	See Placer County							
1-3TC64	Nevada	38	A	In Truckee at Commercial Row & Br. Sta.	0.5	6/23/49	J. Henry Harris	Grade & P.M.S.	66,700	9,309	76,009
3DC21-P	Nevada	FAS 1038		Bet. Rte. 15 & Washington.	5.9	6/12/50	Huntington Bros.	Grade, I.B.M., Pen. Tr. & Sl. Ct.	151,363	20,376	171,739
	Nevada			Various Locations.				Minor Contracts & D.L. Projects	13,166		*13,166
7VC27	Orange	2	A	Bet. 1 Mi. N. of Doheny Park & San Juan Cr.	0.9	1/ 2/47	Cox Bros. Const. Co.	Grade & P.C.C.	113,968	12,810	126,778
7VC42	Orange	2	A, B	Bet. 1 Mi. S. of Galtivan & 1.4 Mi. N. of El Toro Rd.	3.4	6/30/47	Jesse S. Smith	Repair Shldrs with P.M.S.	15,657	1,560	17,217
7VC19	Orange	2	B, C	Bet. 1.4 Mi. N. of El Toro Rd. & S.C.L. of Tustin.	8.3	6/20/46	John J. Swigart Co.	Repair with P.M.S. & Widen Shldrs. with B.S.T.	96,730	7,634	104,364
7VC33	Orange	2	B	Near Irvine about 6 Mi. S. of Tustin.		3/26/47	Catalina Const. Co.	Two Culverts	59,695	5,735	65,430
7VC45	Orange	2	B	Bet. El Toro & Irvine	2.2	8/22/47	O'Brien & Bell Const. Co.	P.M.S. on U.R.B.	60,006	5,552	65,558

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost.	Const. engr.	Total
1-7VVC18	Orange	2, 43, 171	C, A, B	Intrs. of Grand Ave. & Commonwealth Ave., and of E. First & Tustin Ave.		11/18/49	Clinton Ele. Corp.	Signals & Lights	\$19,050	\$606	\$19,656
7V133	Orange	2	F	Bet. Sta. 83+00 & Sta. 99+70	0.3	6/30/48	Day Labor	Drainage Improvement	16,879	511	17,390
7VC55-P	Orange	2, 178	Ana	At Los Angeles St. & Center St.		1/21/48	Prescott Ele. & Mfg. Co.	Signals & Lights	43,000	2,560	45,560
51-7VC12	Orange	2	Ful	At Amerige & Union Aves.		8/ 3/50	Fishbach & Moore of Calif. Inc.	Signals	4,810	322	5,132
52-7V11	Orange	2	Ful	Bet. S.C.L. & Whiting Ave.		7/ 2/51	Day Labor	Storm Drains	126,652		*126,652
11V16	Ora, S.D.	2	SCle, Ora, C, D	See San Diego County							
11VC5	Ora, S.D.	2	SCle, D	See San Diego County							
7VC17	Orange	2	SCle	At Rce. 2 & Avenida Del Mar		3/ 1/46	C. D. Draucker Co.	Signals	5,570	726	6,296
7VC48	Orange	2	SCle	Bet. San Diego Co. Line & Valencia St.	1.8	11/ 3/47	O'Brien & Bell Const. Co.	Grade & P.M.S.	93,037	13,503	106,540
7V156	Orange	2	SCle	Valencia Ave.	2.1	2/ 1/50	Day Labor	Subseal	14,782		14,782
51-7VC6	Orange	2	SCle	At Avenida Valencia, Bet. Mi. 1.77 & Mi. 3.89	2.1	4/ 1/50	Sully-Miller Contr. Co.	P.M.S.	40,033	3,459	43,492
1-7VVC24-P	Orange	2	Tus	D St. at Main St.		3/14/50	Ele. & Mach. Serv., Inc.	Signals & Lights	8,713	227	8,940
7V138	Orange	19	Ful	Bet. Sta. 35+00 & Sta. 108+50	1.4	12/17/48	Day Labor	R.M.S. on Shldrs.	10,040		10,040
7VC71	Orange	43, 179, 183	A, A, A	On Harbor Blvd.		4/ 1/48	Tri-Cities Ele. Serv.	Signals & Lights	30,239	1,273	31,512
52-7VC29	Orange	43, 184, 2,119, 178	A, A, Ful, Ful, Ana	At Intrs. Newport Ave. with McArthur Blvd.-Main St. Spadra Rd. with Brea Blvd. & Center St. with Olive St.		1/23/52	Ele. & Mach. Serv. Inc.	Signals & Lights	38,169	3,700	*41,869
0-7VC85	Orange	43	B	Bet. Heim Ave. & Peralta School	4.9	7/29/48	Peter Kiewit Sons' Co.	Grade & P.M.S. on U.R.B.	792,908	86,120	*879,028
1-8VC45	Ora, Riv.	43	B, A	Bet. 1.7 Mi. W. of Orange Co. Line & Corona	4.9	4/24/50	Peter Kiewit Sons' Co.	Grade & P.M.S. on C.T.B.	495,130	73,500	*568,630

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
51-7VC20 7V166 51-7VC37-F	Orange	43	B	Bet. Heim Ave. & Peralta School	4.6	11/14/50	D. & M. Sprinkler Co.	Roadside Planting	\$11,669	\$1,325	\$12,994
	Orange	43	B	Bet. Peralta School & Riverside Co. Line	6.2	1/ 3/51	Day Labor	Subseal	13,114		13,114
	Orange	43	B	Bet. Peralta School & Riverside Co. Line	6.1	2/23/51	A. Teichert & Son, Inc.	Grade, P.M.S. on C.T.B. & Widen 2 R.C. Bns.	1,040,749	119,700	*1,160,449
7VC67 7V124	Orange	60	A	Bet. Los Patos Ave. & 1.3 Mi. S'ly	1.3	4/ 1/48	O'Brien & Bell Const. Co.	Grade & P.M.S.	64,528	3,542	68,070
	Orange	60	A, B NptB	Bet. 1.3 Mi. S. of Los Patos Ave. & Rte. 43	5.3	5/11/48	Day Labor	Subseal	19,080		19,080
7VC76	Orange	60	A, NptB	Bet. 1.3 Mi. S. of Los Patos Ave. & Rte. 43	5.5	6/ 4/48	Sully-Miller Contr. Co.	Resurf. with P.M.S. on I.B.	233,050	13,952	247,002
14VC17 1-7VC146	Orange	60	B	Across N. Arm of Newport Bay		9/13/46	Case Const. Co.	Repair Steel Br.	35,880	3,746	39,626
	Orange	60	B	Bet. S.C.L. of Newport Beach & Myrtle Ave. in Laguna Beach	5.5	2/ 3/50	Hensler Const. Co.	Grade & P.M.S.	351,117	28,515	379,632
7V164	Orange	60	B	Bet. Sea Scout Base & W.C.L. of Corona Del Mar	2.7	12/ 8/50	Day Labor	Subseal	15,147		15,147
51-7VC32	Orange	60	B, NptB	Bet. Sea Scout Base & S.C.L. of Newport Beach	3.7	1/19/51	Cox Bros. Const. Co.	Widen & P.M.S.	173,575	17,000	*190,575
14VC13-F	Orange	60	C	Bet. Dana Point & Doheny Park	0.4	5/29/46	C. B. Tuttle & Schmidt Bros. Contractors	Widen, P.M.S. & Widen R.C. Br.	206,390	20,384	226,674
1-7VC23	Orange	60	C	On Pacific Coast Hwy. at 3rd Ave. in S. Laguna		4/25/50	Clinton Ele. Co.	Signals & Lights	4,229	314	4,543
7VC29 7VC43	Orange	60	LgnB, C LgnB	Bet. Laguna Beach & Dana Point On Coast Blvd., Bet. Diamond St. & Myrtle St.	4.9	1/30/47	Cox Bros. Const. Co.	Grade & P.M.S.	240,110	28,048	268,158
	Orange	60				6/30/47	Tri-Cities Ele. Serv.	Signals	22,277	3,238	25,515
7VC51 0-7VC75-P	Orange	60	NptB, B, W NptB	Newport Beach & Vicinity Bet. Rte. 43 & Irvine Ave.		12/18/47 5/13/48	C. D. Draucker Co. Baker & Follock	Signals & Lights P.M.S.	76,997 44,132	2,447 4,066	79,444 48,198
7VC18	Orange	60	SIB, A	Bet. Los Patos Ave. in Sunset Beach & Second St. in Seal Beach	2.3	4/30/46	Griffith Co.	Widen Shldrs. & Resurf. with P.M.S.	44,921	4,005	48,926
7VC20	Ora, L.A.	60, 168	SIB, B	See Los Angeles County							
7X08 7V135 7V155	Orange	171	A	Bet. 13th St. & 15th St.		9/11/47	Day Labor	Side Drain	6,505	347	6,852
	Orange	171	A	Bet. 13th St. & Hazard St.		9/ 3/48	Day Labor	Drainage Correction	14,196		14,196
	Orange	171	A	Bet. Garfield Ave. & S. of Jct. with Rte. 179	5.4	2/21/50	Day Labor	Subseal	7,701		7,701

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
1-7VC151	Orange	171	A	Bet. Garfield Ave. & 21st St.	5.4	4/ 1/50	Sully-Miller Contr. Co.	Grade & P.M.S.	\$132,203	\$10,011	\$142,214
1-7VC138	Orange	171	B	On Grand Ave. Bet. Artesia & A.T.&S.F. UP	0.4	12/14/49	Cox Bros. Const. Co.	Widen & B.S.T. on U.R.B.	18,719	2,800	*21,519
51-7VC21	Orange	171	B	At Orangethorpe Ave.		11/15/50	Elc. & Mach. Serv., Inc.	Signals & Lights	9,293	278	9,571
7X59	Orange	174	A, B	At Intrs. of Grand Ave. & Manchester Ave.		6/28/46	Day Labor	Widen & Chnl.	9,864	1,132	10,996
7X31	Ora. L.A.	174	A, B	See Los Angeles County							
1-7VC148-F	Orange	174	A	Bet. Los Angeles Co. Line & 0.2 Mi. SE. of Euclid Ave.	5.0	3/29/50	Sully-Miller Contr. Co.	Grade & A.C. on C.T.B.	515,360	65,228	*580,588
1-7VC149-F	Orange	174	A, Ana	Bet. 0.2 Mi. SE. of Euclid Ave. & Rte. 2.	2.9	3/31/50	Griffith Co.	Grade & A.C. on C.T.B.	322,767	51,769	*374,536
1-7VC154	Orange	174	A	Bet. Artesia Ave. & Euclid Ave.		5/ 5/50	Clinton Elc. Corp.	Signals & Lights	36,084	3,800	*39,884
51-7VC15	Orange	174	Ana, A	Bet. Lincoln Ave. & Los Angeles St.		8/22/50	Westates Eld. Const. Co.	Signals & Lights	38,164	3,900	*42,064
7X85	Orange	175	B	Bet. Rte. 2 & Rte. 43	4.5	3/31/47	Day Labor	Repair Shldrs.	5,825	5,825	5,825
0-7VC118	Orange	175	B	At Yorba Road	0.5	5/26/49	K & H Co.	Grade & P.M.S.	48,922	5,255	53,877
14VLC4	Orange	176	A	Across Coyote Cr., W. of Brea		11/ 3/47	O. B. Pierson	R.C. Bridge	25,916	5,583	31,499
1-7VC111	Orange	176	A	At Coyote Creek		4/20/49	Jas. R. Matthews Excavating Co.	Culvert	10,412	1,542	11,954
52-7VC11	Orange	176, 174.2	A, F, A	Manchester Ave. at La Palma Ave. & Fullerton Rd. at Imperial Hwy.		6/ 5/51	C. D. Draucker, Inc.	Signals & Lights	26,106	2,500	*28,606
0-14VC73	Orange	178	A	Across Santa Ana River	0.7	10/29/48	Chas. MacClosky Co.	R.C. Br. & Apps	296,780	22,483	319,263
52-7VC6	Orange	179	A	Bet. Stanton Ave. & Pacific Elc. Tracks in Garden Grove	3.0	5/24/51	Roland T. Reynolds	Widen & P.M.S.	74,364	8,200	*82,564
7X317	Orange	183	A	Bet. Verano St. & W.C.L. of Santa Ana	1.8	6/ 7/46	John J. Swigart Co.	Resurf. with P.M.S. & Widen Shldrs.	26,608	3,447	30,055
7V143	Orange	184	SA, A	Bet. Delhi Rd. & Newport Rd.	1.7	3/29/49	Day Labor	Resurface	38,909	1,964	40,873
7X326	Ora. L.A.	Var		See Los Angeles County							
7VC82	Ora. L.A.	Var		See Los Angeles County							
52-8VC6	Ora. Sbd. Riv	Var	Var	See San Bernardino County							
7DC5-P	Orange	FAS 737		Bet. Los Angeles Co. Line & Manchester Ave.	3.1	8/12/49	Sully-Miller Contr. Co.	Grade & P.M.S. on C.R.B.	110,960	2,000	*112,960

COMPLETED CONTRACTS—June 30, 1952—Continue I

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
7DC2	Orange	FAS 742		On Harbor Blvd., Bet. Wilson St. in Costa Mesa & Manchester Ave. S. of Anaheim	11.2	12/31/46	Griffith Co.	Widen & P.M.S.	\$238,466	\$13,699	\$252,165
52-7DC1-P	Orange	FAS 747		On Wright-Brookhurst St., Bet. Wintersburg Ave. & Santa Ana Freeway	8.9	8/30/51	Sully-Miller Contr. Co.	Grade, Widen & P.M.S. on U.R.B.	261,900	2,000	*263,900
7DC4	Orange	FAS 749		Two Locations	3.8	7/29/48	Sully-Miller Contr. Co.	Grade & P.M.S.	118,226	1,336	119,562
	Orange			Various Locations				Minor Contracts & D.L. Projects	83,433		*83,433
3T51	Placer	3	A	Bet. 1.9 Mi. N. of Roseville & 1.0 Mi. S. of Lincoln	5.1	8/22/46	Day Labor	R.M.S. on Borders	17,742	387	18,128
1-14TC81	Placer	3	A, B	Bet. 3.5 Mi. S. of Roseville & 0.9 Mi. S. of Sheridan		10/31/49	Fredrickson Bros.	4 R.C. Br. & Apps.	117,286	13,027	130,313
1-3TC65	Pla, Yub.	3	B, A, B	Bet. N. of Lincoln & S. of Marysville	20.2	7/19/49	O'Conner Bros.	Extend Drainage Facilities	43,841	3,372	47,573
1-3TC66	Placer	3	B	At Sheridan	0.3	7/29/49	Rice Bros., Inc.	Grade & P.M.S.	29,410	3,256	32,666
0-14TC55	Placer	3	Rsv, A	In Roseville	3.3	10/19/48	Guy F. Atkinson Co.	Grade, P.C.C., Std. UP., R.C. OC., & Gr. Sep.	1,331,302	148,000	*1,479,302
51-3TC16	Placer	3	Rsv	Bet. Oak St. & Holt St.		4/24/51	Dana R. Tyson Co.	Roadside Development	15,747	2,500	*18,247
3TC27	Placer	17, 37	B, Aub, A	Bet. 0.1 Mi. W. of Nevada St. & 1 Mi. E. of Auburn	2.6	6/24/46	Fredrickson & Watson Const. Co.	Grade, P.C.C. & P.M.S.	632,576	59,879	692,455
3TC34	Placer	17, 37	B, Aub	At Nevada St. & East St. UC.		4/1/47	L. H. Leonard Etc. Const. Co.	Lights	10,087	911	10,998
3TC33-F	Placer	17	C	Bet. Wise Canal & Rock Cr.	1.9	3/11/47	Fredrickson & Watson Const. Co.	Grade, P.M.S. & S.P.R.R. UP.	241,312	27,780	269,092
51-3TC15	Placer	17	C	At Deadman's Curve	0.2	4/2/51	Joe Chevreux	Grade & P.M.S.	17,526	2,650	*20,176
52-3TC19	Placer	17	C	Bet. 1.7 Mi. & 2.3 Mi. N. of Auburn	0.3	3/21/52	Joe Chevreux	Widen & P.M.S. on U.R.B.	22,693	2,700	*25,393
3TC32-F	Placer	17	Aub, C	Bet. Rte. 37 in Auburn & Wise Canal	1.7	9/16/46	Fredrickson & Watson Const. Co.	Grade & P.M.S. on C.R.B.	186,350	18,139	204,489
3TMC14	Placer	17	Rsv	Bet. Jefferson St. & E.C.L.	0.9	4/22/48	J. R. Reeves	P.M.S.	8,121		8,121
0-3TC60-F	Placer	37	A	Bet. 1 Mi. E. of Auburn & 1 Mi. W. of Applegate	6.1	5/20/49	United Conc. Pipe Corp., Ralph A. Bell, Westbrook & Pope	Grade & 2 R.C. OH's	1,177,159	105,723	*1,283,882

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
51-3TC4	Placer	37	A	Bet. 1 Mi. E. of Auburn & 1 Mi. W. of Applegate	6.1	5/24/50	Fredrickson Bros.	P.M.S. on C.T.B.	\$330,448	\$30,000	*\$360,448
3TC91	Pla, Nev.	37	C, D, E, F, B, C, D	Bet. Colfax & Truckee		7/ 1/49	Day Labor	Parking Areas	27,593		27,593
14TC7-F	Placer	37	Aub	At Walsh St.		1/ 3/46	Wm. E. Thomas Const. Co.				
14TC4	Placer	37	Aub	At East St.		1/ 5/46	H. W. Ruby	R. C. Undercrossing	30,584	4,436	35,020
14TC6	Placer	37	Aub	Across S.P.R.R. in Auburn		1/ 8/46	H. W. Ruby	Steel Grade Sep.	59,712	5,993	65,705
3TC50	Placer	37	Aub, A	Bet. Nevada St. & 0.5 Mi. E. of Auburn	1.8	4/ 1/48	Fredrickson & Watson Const. Co.	Steel Overhead	94,387	6,922	101,309
3WC9	Pla, Nev.	38	B, C, A	Bet. 4.7 Mi. W. of Tahoe City & Nevada Co. Line	8.5	6/28/46	Clements & Co.	Fence & Barrier Posts	12,872	985	13,857
14WLC41	Pla, E.D.	65	A, A	Across N. Fork American Riv.	0.3	9/16/46	H. W. Ruby	Repair with P.M.S. & Sl. Ct.	133,935	12,132	146,067
3TC92	Placer	65	Aub	Bet. 0.4 Mi. W. Auburn City Limits & Underpass	0.3	7/ 1/49	Day Labor	Steel Br. & Apps.	250,236	16,697	266,933
3DC17-P	Placer	FAS 767		Bet. N. Fork American Riv. & 2.3 Mi. Ely.	2.3	9/15/49	J. P. Brennan & M. W. Brown	Grade & Surface	22,014	1,600	*23,614
3DC5	Placer	FAS 768, 769, 770		Bet. Loomis & Auburn & Bet. FAS Rte. 768 & Newcastle	11.9	8/ 7/47	H. Earl Parker, Inc.	Grade	227,362	22,539	249,901
0-2TC26	Placer	21	A	Various Locations				Grade & R.M.S.	138,611	16,912	155,523
1-2TC37	Plumas	21	A	Bet. Rock Cr. & Belden	1.9	4/21/48	Piombo Const. Co. & M & K Corp.	Minor Contracts & D.L. Projects	17,470		*17,470
2TC29	Plu, Sha, Tri	21, 20	B, B, A	Bet. Rock Cr. & Belden	3.4	7/ 7/49	Granite Const. Co.	Grade	886,745	58,802	*945,547
51-2TC5	Plumas	21	D	Near Keddie, Schilling, & Douglas City		6/24/48	Liston Ehorn	Grade & P.M.S.	156,707	23,497	179,204
51-2TC6	Plu, Sha, Sis	21, 29, 3	Var	At Quincy H. S. Line Change	0.4	6/ 5/50	Steele & Easton	Truck Scales	25,374	3,903	29,277
				See Shasta County				Grade & P.M.S.	25,755	6,159	31,914

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
14TC14 2TC20	Plumas Plu. Las.	29 29	A A, A	Across N. Fork of Feather Riv. at Chester. Bet. 0.3 Mi. W. & 0.8 Mi. E. of Plumas- Lassen Co. Line.	1.1	8/ 9/46 4/21/47	C. C. Gildersleeve Fredrickson & Watson Const. Co.	Sidewalks on Br.	\$6,288	\$179	\$6,467
1-2TC38	Plumas	29	A	Bet. Rte. 83 & 1.4 Mi. E. of Chester	4.4	7/20/49	Clements & Co.	Grade & P.M.S. Grade & P.M.S.	89,651 146,569	9,645 18,950	99,196 165,519
0-14TC40	Plumas	83	A	Across Sulphur Creek	—	4/19/48	Chittenden & Chittenden.	R.C. Br. & Apprs.	51,802	8,559	60,361
14DC1	Plumas	FAS 523	—	Across Hamilton Branch	—	5/ 9/45	Kiss Crane Co.	Steel Br.	69,653	7,875	77,528
2DC4	Plumas	FAS 523	—	Bet. Rte. 83 near Almanor & Plu-Las. Co. Line, 2 Mi. W. of Westwood	9.9	8/ 7/46	Fredrickson & Watson Const. Co.	Grade & P.M.S. on C.R.B.	386,487	37,070	403,557
	Plumas	—	—	Various Locations	—	—	—	Minor Contracts & D.L. Projects	58,337	5	*58,342
8VC6 8VC10 8VC11 8VC12	Riverside Riv. SBD Riverside Riv. SBD	19 19 19 19, 43, 9	A A, B A A, A, A A	Bet. Mira Loma & 2.5 Mi. W. of Riverside. See San Bernardino County Bet. Mira Loma & 2.5 Mi. W. of Riverside. See San Bernardino County Bet. Mira Loma & 2.5 Mi. W. of Riverside.	5.9 5.9	12/14/45 3/20/47	Geo. Herz & Co. George Herz & Co.	Grade & P.M.S. Seal Coat	686,302 8,604	40,183 934	726,485 9,538
0-8VC41	Riverside	19	A	Bet. Mira Loma & 2.5 Mi. W. of Riverside	—	6/28/49	Covina Const. Co.	Grade & P.M.S.	40,685	9,256	49,941
52-8VC19	Riverside	19 194	D, C	Intra. Rte. 19 with Rte. 194, Abt. 8 Mi. W. of Beaumont.	—	4/28/52	E. L. Yeager Co.	Chulz.	12,059	2,000	*14,059
1-8VC3 52-8VC3	Riverside Riverside	19 19	Riv Riv	On Pepper St. at 7th St. Bet. S.P.R.R. & Sedgewick Ave.	0.4	8/18/49 4/ 2/51	Ed Seymour R. A. Erwin	Signals Widen & P.M.S.	11,270 35,574	1,166 9,900	12,436 *45,474
14VC43 8VC23	Riverside Riverside	26, 64 26	C, Q C	NW. of Indio & W. of Indio Bet. E.C.L. of Banning & Rte. 187	10.5	12/31/47 5/27/48	E.S. & N. S. Johnson Basson Bros. Const. Co. & Basch Bros.	Redeek 5 Timber Brs. P.M.S.	35,292 177,589	4,902 10,896	40,104 188,485
1-8VC32	Riverside	26	D	Bet. Garnet & Edom.	10.4	4/ 1/49	R. P. Shea Const. Co.	P.M.S.	133,261	9,383	142,644
0-11VC27	Riverside	26	E	Bet. Edom & 2.9 Mi. N. of Indio	7.4	4/ 1/48	R. P. Shea Co.	P.M.S.	78,430	8,399	86,829
51-14VC3	Riverside	26	G	Across Almar Ditch	—	7/13/50	C. B. Tuttle Co.	R. C. Bridge	32,420	6,309	38,729
8VC9-P	Riverside	26	Ban, B	Bet. Midway & E.C.L. of Banning	3.1	6/25/46	Herz Paving Co.	Repair with P.M.S. & Grade Shldr.	52,245	2,755	55,000

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
0-8VMC4-P 1-8VC42-F 1-8VC43 52-8VC1	Riverside Riv. SBd. Riv. SBd. Riverside	26 26 26 26	Bau, A, B Bau, A, B Bau, A, B Bau	Bet. Magnolia Ave. & Pennsylvania Ave. See San Bernardino County See San Bernardino County Bet. W.C.L. & E.C.L.	0.6 1.2	9/ 8/48 4/ 2/51	Foster & McHarg Matich Bros.	Curts & Gutters P.M.S.	\$10,442 25,342	\$1,957 3,350	\$11,957 *28,692
52-11VC2	Riverside	26, 64	Ind, F, Coa, Ind	Bet. Indio & Ave. 62	9.3	4/ 2/51	John J. Swigart Co.	Grade & P.M.S.	358,304	55,000	*413,304
1-8VC45	Riv, Ora.	43	A, B	See Orange County							
0-14VC51	Riverside	43	B	Across Temescal Wash.	0.5	4/ 1/48	Dummit & Taylor & K. B. Nicholas	R.C. Br. & P.M.S. on Apps.	168,546	16,979	185,525
1-8VC48	Riverside	43	Cor	Bet. W.C.L. & E.C.L.	2.6	6/21/50	E. L. Yeager Co.	P.M.S., Lights, Signals	294,165	45,200	*339,365
52-8VC15-P	Riverside	43	Cor	On 6th St. at W. Grand Blvd. and at E. Grand Blvd.		11/27/51	Ed. Seymour	Signals & Lights	10,157	1,000	*11,157
1-8VC36	Riv. SBd.	43	Riv, C, F	Bet. Russell St. & SBd. Co. Line	2.6	5/26/49	J. A. Payton	Grade & P.M.S.	478,467	71,441	549,908
51-8VC4-P 51-8VC7	Riverside Riv. SBd.	43 43	Riv, C, F Riv, C, F	At Van Buren Street Bet. Russell St. & 0.1 Mi. N. of SBd. Co. Line		9/ 6/50	Paul R. Gardner	Signals & Lights	11,746	761	12,507
52-8VC7-P	Riverside	43	Riv	At Central Ave., Brockton Ave. & at Jurupa St.		10/20/50	H. C. Warren	Lights	10,510	1,500	*12,010
1-11VC39	Riverside	64	B, D	Bet. Shavers Well & Desert Center & Bet. 4 Mi. W. Hopkins Wells & Black Butte		6/15/51	Fischbach & Moore, Inc.	Signals & Chnlz.	27,982	2,000	*29,982
11VC8	Riverside	64	C, D	Bet. 6 Mi. E. of Desert Center & Hopkins Well	10.9	4/21/49	Hensler Const. Corp.	P.M.S.	65,976	6,172	72,148
52-14VC11	Riverside	64	C, D	Bet. 10 & 36 Mi. W. of Blythe	10.4	4/30/47 10/30/51	Arthur A. Johnson Norman I. Fadel	R.M.S. & Sl. Ct. Reced. 19 Timber Brs. with R. C. Slabs	57,207 90,368	5,633 15,000	62,840 *105,368
11XC15-P	Riverside	64, 146	E, A, B, C, D, E	Bet. 1.9 Mi. W. of Pallowalla & 3.9 Mi. W. of Blythe & Bet. 3.6 Mi. N. of Imp. Co. Line & 1.8 Mi. S. of SBd. Co. Line	12.3	4/11/47	MacArthur & Son	Repair with R.M.S.	50,319	3,021	53,340
11VC21-F 0-11VC32-F	Riverside Riverside	64 64	E, Bly, F E, Bly	Bet. 4 Mi. W. of Blythe & Colorado River Bet. 4 Mi. W. of Blythe & Colorado Riv.	1.8 8.3	1/20/48 6/24/48	Arthur A. Johnson Basich Bros. Const. Co. & Basich Bros.	Grade, E.S.T. & R.C. Struct. P.M.S. on C.T.B.	207,092 230,954	27,037 17,809	234,129 248,763
14VC19 14VC21	Riverside Riverside	64 64	H, B H	Near Indio Across Coachella Canal, 5 Mi. E. of Indio		9/13/46 11/14/46	E. G. Perham F. Fredenburg	Repair 5 Timber Brs. R.C. Br.	37,195 37,483	3,714 3,429	40,909 40,912

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
0-14VC78	Riverside	64	H	Across Sleepy Draw	---	2/ 3/49	John Strona	R.C. Bridge	\$29,580	\$3,936	\$33,516
1-14VC94	Riverside	64	H	Across Smockey Gulch & Coachella Storm Drain	---	9/23/49	K. B. Nicholas	Redeck Timber Br. & Const. R.C. Br.	94,188	9,365	103,553
1-11VC61	Riverside	64	H, I, B, C, D	Bet. Indio & Black Butte	21.4	6/22/50	R. P. Shea Co.	Resurf. with P.M.S.	81,248	15,500	*96,748
52-11VC5	Riverside	64	H, I, B, C, D	Bet. Indio & Black Butte	22.4	5/24/51	James L. Miller & Sons	P.M.S.	166,408	20,000	*186,408
52-8VC4	Riverside	64	K	Bet. 2 Mi. W. of Hemet & Sanderson Ave.	1.0	5/ 8/51	R. A. Erwin	Grade & P.M.S.	44,427	8,775	*53,202
8VMC2	Riverside	64	Hem	Bet. State St. & E.C.L.	0.8	6/ 8/48	R. A. Erwin	P.M.S.	12,120	---	12,120
1-8VC33	Riverside	64, 194	Hem	Bet. W.C.L. & State St. & Bet. Rte. 64 & N.C.L.	1.5	4/ 1/49	Geo. Herz & Co.	P.M.S.	18,152	1,029	19,181
8VC27	Riverside	77	A	Bet. San Diego Co. Line & N. of Temecula	5.9	6/24/48	Morrison-Knudsen Co., Inc.	Grade, P.M.S. & 2 R.C. Brs.	698,513	81,067	*779,580
51-8VC8-F	Riverside	77, 78	A, C	Bet. 1 Mi. N. of Temecula & Antelope Rd.	7.0	11/27/50	L.A. & R.S. Crow	Grade, R.M.S. & 2 R.C. Brs.	663,226	98,000	*761,226
1-8VC37	Riv, Sbd	77	C, A	See San Bernardino County	---	---	---	---	---	---	---
0-14VC86-Y	Riverside	77	E	W. of Corona	---	5/25/49	R. M. Price Co. & O. B. Pierson	2 Sbl. OH., R.C. U.C., Sbl. Br. & Sbl. Gr. Sep.	451,103	49,976	501,079
1-8VC39	Riv, Sbd	77, 192	E, A, A	Bet. Rte. 43 & Pine Ave.	6.5	7/ 7/49	A. Tachert & Son, Inc.	Grade, P.M.S. & Sbl. Struct.	621,638	93,536	*715,174
11V52	Riv, S D	77	F, G, A	See San Diego County	---	---	---	---	---	---	---
11X30	Riv, S D	77	F, F, G	See San Diego County	---	---	---	---	---	---	---
52-8VC9	Riverside	77	Cor	Bet. E.C.L. & Main St.	2.4	8/ 9/51	E. L. Yeager Co.	Widen & P.M.S. on I.B.M.	40,768	4,650	*45,418
52-14VC3	Riverside	78	A	Across Cienega Rincon Cr., about 0.6 Mi. E. of Aguanga	---	10/ 5/51	H. R. Bredsen	R.C. Culv.	17,823	5,000	*22,823
52-8V11	Riverside	78	D	At Alessandro Blvd.	---	9/14/51	Day Labor	Channelization	6,932	---	*6,932
52-8VC14	Riverside	78	D	At Alessandro Blvd.	---	11/15/51	Fischbach & Moore, Inc.	Signals & Lights	14,034	1,200	*15,234
11XC13	Riverside	146	A, B, C, D, E	Bet. 1.3 Mi. N. of Imp. Co. Line & 0.5 Mi. S. of Sbd. Co. Line	15.4	8/21/46	Arthur A. Johnson	Repair with I.B.M. & R.M.S.	54,272	5,629	59,901
0-14VC88	Riverside	146	A, B, C	Bet. 3.3 Mi. N. Imp. Co. Line & 4 Mi. N. Blythe	---	6/18/49	E. G. Perham	3 R.C. Brs. & Apprs.	47,600	7,442	55,042

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
51-11VC5	Riverside.....	187	A, B	Bet. Imperial Co. Line & 3 Mi. SE. of Mecca.....	14.8	11/15/50	Griffith Co.....	Grade & R.M.S. on I.B.M.....	\$525,236	\$69,000	*\$594,236
11VC28	Riverside.....	187	B, F	Bet. SE. of Mecca & S. of Thermal.....	6.8	5/21/48	Hensler Const. Co.....	Grade, B.S.T. & 5 R.C. Struts.....	409,443	34,420	443,863
8XC13	Riverside.....	187	C	Near Cathedral City.....		8/29/47	R. P. Shea Co.....	Dips.....	6,491	1,369	7,860
0-8VC22	Riverside.....	187	C	Bet. 0.1 Mi. & 0.6 Mi. E. of Cathedral City.....	0.5	5/13/48	Westbrook & Pope.....	Grade & P.M.S.....	54,375	4,574	58,949
8VC16	Riverside.....	187	D	Bet. White Water Point & 0.5 Mi. N. of Palm Springs.....	4.1	12/11/47	Peter Kiewit Sons' Co.....	Grade, P.M.S. & 3 R.C. Struts.....	357,164	41,590	398,754
51-8VC9	Riverside.....	187	E	Bet. 7.8 Mi. & 8.2 Mi. N. of Rte. 26.....	0.4	11/27/50	R. P. Shea Co.....	Grade & B.S.T.....	32,178	6,200	*38,378
1-8VC34	Riverside.....	187	FSp	In Palm Springs.....	2.5	5/10/49	R. P. Shea Co.....	P.M.S.....	23,214	1,723	24,937
0-8VC26	Riverside.....	193	B	Bet. Bellgrave Ave. & Rte. 19.....	3.0	6/10/48	R. A. Erwin.....	Resurf. with P.M.S.....	55,522	5,183	60,705
8X5	Riverside.....	194	A	Bet. Sage & Jet. of Rte. 78.....		5/20/46	Day Labor.....	Grade, Surf. & C.M.P. Culvs.....	14,472		14,472
0-14VC70	Riverside.....	194	C	Across Potrero Creek.....		9/29/48	H. R. Breeden.....	R.C. Br. & Apps.....	15,090	3,380	18,470
52-8VC6	Riv, SB4, Ora.	Var	Var	See San Bernardino County.....							
51-8DC3-P	Riv, SB4.....	FAS 693		See San Bernardino County.....							
8DC5	Riv, SB4.....	FAS 695		On Archibald Ave., Bet. Cloverdale Ave. & Valley Blvd.....	6.0	9/ 4/47	Peter Kiewit Sons' Co.....	Grade, I.B. & P.M.S.....	190,421	17,609	208,030
8DC3	Riverside.....	FAS 699		On Jurupa Ave., Bet. Mira Loma & Sunnyslope.....	5.3	7/ 8/47	Peter Kiewit Sons' Co.....	Grade & P.M.S.....	111,807	11,499	123,306
52-8DC1-P	Riverside.....	FAS 701		On Hole & Holden Aves., Bet. Riverside W.C.L. & Arlington Ave.....	3.6	7/23/51	R. A. Erwin.....	Grade & P.M.S. on C.T.B.....	180,123	14,000	*194,123
8DC1	Riverside.....	FAS 706		On B St. & Crestmore Rd.....	2.9	3/12/47	E. L. Yeager.....	Grade & P.C.C.....	117,067	9,902	126,969
8DC13-P	Riverside.....	FAS 718		On Lakeview Ave., Bet. Nuevo & Lakeview.....	2.9	11/14/50	Foster & McHarg.....	Grade & R.M.S.....	70,289	5,185	75,474
14DC29	Riverside.....	FAS 720		Across Santa Gertrudis Creek.....	0.4	10/ 9/47	Foster & McHarg.....	R.C. Br. & Apps.....	37,335	1,409	38,744
8DC9	Riverside.....	FAS 720		Bet. Benton Road & Winchester.....	8.7	7/29/49	Geo. Herz & Co.....	Grade, I.B. & B.S.T.....	305,273	23,112	328,385

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
51-14DC7-P	Riverside	FAS 734		Across Coachella Valley Storm Drain		2/20/51	F. Fredenburg	R.C. Bridge	\$70,578	\$2,721	\$73,299
11DC8	Riverside	FAS 735		Bet. Blythe & Palo Verde Mesa	5.8	11/14/49	Nathan A. Moore	Grade, B.S.T. & R.C. Br.	131,163	7,847	139,010
11DC2	Riverside	FAS 1162		On Jackson Street	5.0	10/29/48	Foster & McHarg	Grade, I.B. & B.S.T.	101,229	6,000	107,229
	Riverside			Various Locations				Minor Contracts & D.L. Projects	61,846	22	*61,868
52-3TC15	Sacramento	3	A	At Twin Oaks Ave., Abt. 0.2 Mi. S. of Placer Co. Line	0.2	11/ 1/51	McGillivray Const. Co.	P.M.S. on P.M.C.B.	16,777	2,800	*19,577
3TC21	Sacramento	3	B	Bet. N. Sacramento Viaduct & 0.5 Mi. E. of Ben Ali	4.1	12/20/45	Guy F. Atkinson Co.	Grade, P.C.C. Std. UP., Conc. OC., & 2 Conc. UC's	1,758,709	150,548	1,909,257
3TC36	Sacramento	3	B	N. Sacramento Freeway		8/ 5/46	Day Labor	Signs & Stripe	8,021		8,021
3TC43	Sacramento	3	B	Bet. N. Sacramento Viaduct & Howe Ave.		11/13/47	Luppen & Hawley, Inc.	Lights	30,372	1,807	32,179
3TC46	Sacramento	3	B	Bet. N. Sacramento Viaduct & 0.5 Mi. E. of Ben Ali		2/ 4/48	Master Plumbing & Heating Co., Inc.				
3TC88	Sacramento	3	B	N. Sacramento Freeway	0.3	8/ 4/48	Day Labor	Landscape	79,030	7,900	86,930
0-3TC55	Sacramento	3	B	N. Sacramento Freeway	3.7	12/ 3/48	Fred Kaus	Curbs	5,375	1,005	6,380
0-3TC56	Sacramento	3	B	N. Sacramento Off-Ramp	0.2	12/ 4/48	McGillivray Const. Co.	Barrier Posts	8,630	1,872	10,502
1-3TTC4	Sacramento	3	B	E. End of N. Sacramento Viaduct		11/29/49	L. H. Leonardi Const. Co.	Grade & Surf.	11,534	2,148	13,682
51-3TC13	Sacramento	3	B	Bet. Sacramento City Limits & American Rlv.	0.3	11/29/50	J. R. Reeves	Illuminated Sign Bridge	4,604	874	5,478
3T96	Sacramento	3	B	Bet. N. Sacramento Viaduct & 0.5 Mi. E. of Ben Ali		3/ 1/50	Day Labor	Widen & P.M.S.	16,201	4,050	*20,251
								Guard Rail, Guide Posts, Reflectors & Signs	5,226		5,226
3TC30	Sacramento	3	NSac	Bet. Birch Ave. & El Camino Ave.		8/27/46	R. Flatland	Signals	21,788	2,531	24,319
3TC44-P	Sacramento	4	B, Sac	Stockton Blvd. at 14th Ave.		12/17/47	A. Teichert & Son, Inc.	Widen, R.M.S. & Signals	24,473	3,454	27,927
1-3TTC5	Sacramento	4	Sac	Stockton Blvd. at Fruitridge Rd.		12/19/49	A. Teichert & Son, Inc.	Signals, Lights, Improve Infrs.	23,870	2,741	26,611
51-3TC9	Sacramento	4, 3	Sac, B	Bet. Broadway & N. 12th St.	2.3	7/17/50	Brighton Sand & Gravel Co.	Resurf. with P.M.S.	38,990	3,400	*42,390
3T99	Sacramento	4, 3	Sac, B	Bet. Broadway & N. 12th Street		8/30/50	Day Labor	Signs, Stripe, Signals, & Chnlz.	6,027		6,027
51-3TC14	Sacramento	6	Sac	Bet. 10th St. & 13th St.	0.2	1/30/51	J. R. Reeves	Curbs & Gutters	6,228	1,150	*7,378
51-14TC22	Sac, Yolo	6	Sac, C	See Yolo County							

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
COFC3	Sac, C.C.-----	11	A, C	See Contra Costa County							
3TC36	Sacramento----	11	B, Fol	Bet. 12 Mi. E. of Sacramento & Riley St. in Folsom	5.4	5/12/47	Harnes Bros.	P.M.S.	\$55,606	\$4,623	\$60,229
0-3TC54	Sacramento----	11	B, A	Bet. W. of Nimbus & E. of White Rock	7.3	6/18/48	Geo. Pollock Co.	Grade, P.M.S. & R.C. OH.	688,575	65,857	754,432
10WLC13	Sacramento----	11	C	Bet. Antioch Br. & Emerton	3.4	6/11/46	Sheldon Oil Co.	Repair with I.B. & B.S.T.	39,557	3,979	43,536
14WLC53	Sacramento----	11	C	Across Three Mile Slough		6/20/47	Johnson Western Co.	Bridge Substruct.	238,659	18,943	257,602
14TC32-FP	Sacramento----	11	C	Across Three Mile Slough		11/ 5/47	Judson-Pacific-Murphy Corp.		554,902	34,998	589,900
10TC26	Sacramento----	11	C	At Three Mile Slough	1.2	1/26/48	Sheldon Oil Co.	Steel Br. Super-Struct.	70,202	8,354	78,556
COFC-5	Sacramento----	11	C	Across San Joaquin River		7/26/50	H. F. Lauritzen	Grade & B.S.T. on Apps.	27,095		*27,095
10W55	Sacramento----	11	G	Bet. Rio Vista Br. & 2.0 Mi. N'ly	1.9	5/ 7/47	Day Labor	Resurface with P.M.S.	10,864	595	11,459
3TC39	Sacramento----	11	Fol, A	Bet. Sutter St. in Folsom & 3.7 Mi. E.	4.2	7/11/47	Brighton Sand & Gravel Co.	P.M.S.	37,884	2,338	40,222
14WLC47	Sac, Sol.-----	53	A, C	See Solano County							
10W56	Sacramento----	53	D	Bet. Isleton & Georgiana Slough	1.7	5/ 7/47	Day Labor	Resurf. with P.M.S.	11,495	590	12,085
0-3TC52	Sacramento----	54	B	At Sloughhouse	1.6	5/11/48	Brighton Sand & Gravel Co. & Lew Jones Const. Co., Inc.		209,771	24,533	234,304
1-3TTC1	Sacramento----	98	A	At Int. Fulton & Marconi Aves.		8/17/49	L. H. Leonardi Ele. Const. Co.	Signals & Lights	12,817	1,394	*14,211
1-3TTC2	Sacramento----	98	A	On Fair Oaks Blvd. at Howe Ave.	0.4	10/ 4/49	A. Teichert & Son, Inc.	Grade, P.M.S., Signals & Lights	40,143	4,206	*44,349
51-14TC26	Sacramento----	98	A	Across American River at H St.		3/21/51	Lord & Bishop	Widen Timber, R.C. & Steel Br.	113,832	7,500	*121,332
52-3TC13	Sacramento----	98	A	At Ints. of Fulton Ave. with Arden Way & El Camino Ave.		9/13/51	R. Gould & Son	Signals, Lights & P.C.C. Curb	23,585	3,300	*26,885
51-14TC11-F	Sacramento----	98	B	Across American Riv. near Elvas		7/26/50	Lord & Bishop	Br. Substructure	614,858	43,000	*657,858
0-3TMC15	Sacramento----	Var	Sac	In Sacramento	6.9	9/27/48	A. Teichert & Son, Inc.	P.M.S.	110,062		110,062
14DC5	Sacramento----	PAS 537		Across Arcade Cr. on Madison Ave.		3/ 5/47	Wm. E. Thomas Const. Co.	R.C. Bridge	18,706	2,185	20,891
14DC4	Sacramento----	PAS 900		Across Bear Slough		10/ 3/46	M. A. Jenkins	R.C. Bridge	67,604	3,897	71,501

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
52-3DC3-P	Sacramento	FAS 928		Bet. Main Ave. in Orangevale Colony & Folsom-Auburn Rd.	1.5	7/31/51	J. R. Reeves.	Grade & P.M.S. on U.R.B. & I.S.M.	\$140,400	\$16,000	*\$156,400
3DC3	Sacramento	FAS 929		On Marconi Ave., Bet. Howe Ave. & Fair Oaks Blvd.	4.7	6/30/47	McGillivray Const. Co.	Grade & P.M.S. on C.R.B.	111,063	9,245	120,308
14DC6	Sacramento	FAS 933		Across Laguna Creek		10/15/46	Bati Rocca	R.C. Bridge	34,095	2,295	36,390
3DC1	Sacramento	FAS 937		On Howe Ave. Bet. Fair Oaks Blvd. & Arden Way	1.6	3/17/47	Westbrook & Pope	Grade, Widen & P.M.S.	50,170	5,852	56,022
3DC6	Sacramento	FAS 937		Bet. Arden Way & Rte. 3	1.9	8/13/47	George E. France	Grade, C.R.B. & Armor Coat	65,747	5,507	71,254
	Sacramento			Various Locations				Minor Contracts & D.L. Projects	39,955	293	*40,248
5TC6	San Benito	2	A	Bet. Prunedale Jet. & SCI Co. Line	1.6	6/11/46	Granite Const. Co.	Repair with C.T.B. & P.M.S.	57,435	3,111	60,546
5TC7	SBt, Mon	2	B, J	See Monterey County							
1-5TC16-F	San Benito	2	B, A	Bet. Chittenden Rd. & 1 Mi. N. of San Benito Riv.	2.3	5/19/50	Granite Const. Co.	Grade, P.M.S. on C.R.B. & R.C. Br.	481,708	65,000	*\$546,708
5TC9	San Benito	22	C	Bet. Rte. 2 & San Juan Bautista	2.2	6/26/47	A. Teichert & Son, Inc.	Repair with I.B. & B.S.T.	35,565	2,415	37,980
51-5TC3-F	San Benito	22,119	Hst, B, F	Bet. Hollister & Santa Clara Co. Line	9.4	6/14/50	Fredrickson & Watson Const. Co.	Grade & P.M.S. on C.T.I.B.	447,259	67,683	*\$514,942
0-14TC38	SBt, SCR	67	A, A	Across Pajaro River	0.9	4/ 1/48	Dan Caputo & Edward Keeble	Steel Br. & Apps.	184,992	23,877	208,869
5W10	San Benito	119	C	Across Late Creek		3/27/47	Day Labor	Replace R.C. Br.	5,778		5,778
5DWC1	San Benito	119	E	Bet. 2.5 Mi. S. of Hollister & Hollister	2.6	4/ 4/47	A. Teichert & Son, Inc.	Grade & P.M.S.	136,987	16,015	153,002
0-5TC13	San Benito	119	E	Bet. Tres Pinos & 0.25 Mi. N.	0.3	6/22/49	Granite Const. Co.	Grade & P.M.S.	29,362	3,698	*\$35,060
51-14TC35-F	SBt, SCL	119	F, A	Across Pajaro River	0.4	2/ 7/51	Fredrickson & Watson Const. Co.	R.C. Br. & Apps.	94,808	14,000	*108,808
14DC48	San Benito	FAS 670		N. of Hollister		4/ 1/49	Wm. E. Thomas Const. Co.	6 R.C. Brs. & P.M.S. & Apps.	27,280	846	28,136
14DC66-P	San Benito	FAS 670		At Tequisquita Slough Overflow & on Fairview Rd. near Hollister		4/ 7/50	Herbert H. Anderson	R.C. Culverts	2,607	454	3,061

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
51-5DC4-P	San Benito	FAS 670		Bet. Mansfield Rd. & Lone Tree Road	1.6	6/23/51	Granite Const. Co.	Grade & Pen. Tr.	\$23,844	\$1,784	\$25,628
8VC12	San Benito			Various Locations				Minor Contracts & D.L. Projects	16,026		*16,026
	SBd, Riv	9, 19 43	A, A, A	Bet. E.C.L. of Upland & 0.6 Mi. E. of Haven Ave., Bet. 2.4 Mi. & 0.3 Mi. W. of Riverside & Bet. Panorama Point & Squirrel Inn	10.7	5/ 5/47	Matich Bros.	P.M.S. & Sl. Ct.	111,027	6,537	117,564
14VC31	San Bernardino	9, 190	A, A	Across Day Canyon Flood Channel about 5 & 7 Mi. E. of Upland		5/16/47	George W. Peterson	Two R.C. Bridges	73,669	9,015	82,684
51-8VC10	San Bernardino	9	A	At San Bernardino Road	0.3	1/11/51	Boddum & Peterson	Grade, P.M.S. & Lights	19,874	3,883	*23,757
51-8VC6	San Bernardino	9	B, Ria	At Sierra Ave. & at Riverside Ave.		10/31/50	Westates Elcl. Const. Co.	Signals & Lights	31,910	2,164	34,074
0-8VC20	San Bernardino	9	D, Upl, A, C	Bet. Los Angeles Co. Line & San Bernardino	9.0	4/15/48	Matich Bros.	P.M.S. & Sl. Ct.	147,972	8,562	156,534
1-8VVC4-P	San Bernardino	9, 31	SBd	On Mt. Vernon Ave. at 5th, 6th, 7th & Baseline Sts.		10/15/49	C. D. Draucker, Inc.	Signals & Lights	18,010	704	18,714
51-14VC9-P	San Bernardino	9	SBd	At I Street		11/10/50	K. B. Nicholas	Steel OH.	433,983	30,843	*464,826
52-8VC16-P	San Bernardino	9	SBd	At Intrs. of 5th St. with F, G, & H Sts.		12/17/51	Trico Co.	Signals & Lights	12,575	1,000	*13,575
8VC19	San Bernardino	9, 192	Upl	At Foothill Blvd. & Euclid Ave.		4/ 1/48	Tri-Cities Elec. Serv.	Signals & Chulz.	18,840	1,663	20,503
8VC14-FP	San Bernardino	19	A, Ont, B	Bet. Los Angeles Co. Line & 0.6 Mi. E. of Ontario	5.7	10/14/47	Morrison-Knaudson Co.	Grade & P.M.S. on C.T.B.	905,990	79,908	985,899
8VC10	SBd, Riv	19	B, A	Bet. 0.5 Mi. E. of Ontario & Mira Loma	5.8	9/23/46	Peter Kiewit Sons' Co.	Grade & P.M.S.	420,908	44,108	465,016
8VC15	San Bernardino	19, 192	Ont	At Euclid Ave. & Rte. 19		10/29/47	Paul G. Gardner	Signals	12,969	1,186	14,155
14VC12	San Bernardino	26	A	Across Mission Storm Drain		3/ 1/46	Carl Broome	Widen Conc. Br.	11,391	2,831	14,222
8VC24	San Bernardino	26	A	On Colton Ave.		6/ 4/48	Ets-Kokin & Galvan	Signals	19,029	1,506	20,535
1-8VVC2-P	San Bernardino	26, 43	A, SBd	Intrs. at E St., Colton Ave. & Mill St. at S.C.L.		8/12/49	Westates Elcl. Const. Co.	Widen, Signals & Lights	24,430	1,617	26,047
1-8VC42-F	SBd, Riv	26	B, A, Bau	Bet. 2.3 Mi. E. of Redlands & Beaumont	9.6	11/17/49	Fredericksen & Kasler	Grade, P.M.S. on C.T.B., R.C. Br. & Conc. Sep. Struct.	1,272,873	136,511	*1,409,384
51-8VC13	SBd, Riv	26	B, A, Bau	Bet. 1.5 Mi. NW. of Riverside Co. Line & Beaumont		4/10/51	Paul R. Gardner	Lights & Signs	23,186	2,600	*25,786

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
1-8VC5	San Bernardino	26	C	Intrs. of Holt & Central Aves.	---	2/10/50	Clinton Ele. Corp.	Signals & Lights	\$8,074	\$898	\$9,512
8XC5	San Bernardino	26	D, Ria	Bet. Mulberry St. & Colton	9.8	12/28/45	Griffith Co.	Grade, P.C.C. & SH. OC.	1,452,014	69,764	1,521,778
8XC6	San Bernardino	26	D	Bet. Vineyard & Etiwanda Aves.	5.7	3/29/46	Matich Bros.	Grade, P.C.C., & 4 R.C. Brs.	497,645	41,483	539,128
8XC7	San Bernardino	26	D, Ria	Bet. Kaiser Springs & Colton	---	3/27/47	Day Labor	Landscaping	14,900	---	14,900
8XC12	San Bernardino	26	D	Bet. Etiwanda Ave. & Mulberry Ave.	0.9	6/4/47	George Herz & Co.	Grade, P.C.C., R.C. OH., & Seal Coat	398,376	34,634	431,010
8VC21	San Bernardino	26	D	2.7 Mi. W. of Colton	0.1	4/22/48	R. A. Erwin	P.M.S. & P.C.C.	5,227	1,324	6,551
8VC17-F	San Bernardino	26	E, A, Rd	Bet. E St. & State St. in Redlands	7.2	2/20/48	Geo. Herz & Co.	Grade, P.M.S. & Widen R.C. Br.	778,800	72,661	850,970
8VC32	San Bernardino	26	E, A, Rd	Bet. E St. & State St.	7.2	2/28/49	Day Labor	Signs & Stripe	6,919	---	6,919
1-8VC37	Bd, Riv	26, 77	E, A, Rd, C, A	Various Locations	23.4	6/9/49	G & H Paving Co.	Seal Coat	31,264	2,216	33,480
8XMC1	San Bernardino	26	Ont	On A Street	---	6/19/47	Paul Gardner	Signals	24,743	---	24,743
0-8VMC3	San Bernardino	26	Ont	Bet. Benson Ave. & San Antonio Ave.	1.2	7/9/48	Matich Bros.	P.M.S.	51,532	---	51,532
51-8VC1	San Bernardino	26	Ont	Bet. San Antonio Ave. & Corona St.	---	4/1/50	George Herz & Co.	Resurf. with P.M.S.	35,448	2,800	41,248
52-8VC12-P	San Bernardino	26, 102	Ont	On A St. at Bon View Ave. & on Euclid Ave. at B St.	2.7	9/13/51	Elc. & Mach. Serv. Inc.	Signals & Lights	11,278	1,000	*12,278
8VC7	San Bernardino	26	Rld	Bet. State St. & E.C.L.	2.8	12/21/45	Matich Bros.	Grade, & P.C.C.	317,522	22,126	339,648
8VC25	San Bernardino	31	B	Cajon Pass Hwy. near Blue Out.	---	6/10/48	Matich Bros.	Truck Scales	12,107	397	12,504
8VC8	San Bernardino	31	D	Bet. Victorville & Oro Grande UP.	4.7	6/11/46	Geo. Herz & Co.	Repair with P.M.S.	41,131	2,673	43,804
14VC56	San Bernardino	31	H, J, K, L	Bet. 28 & 70 Mi. E. of Barstow	---	5/28/48	Thomas Const. Co.	Redeck 13 Timber Brs.	78,236	11,159	89,395
1-8VC46	San Bernardino	31	H, J	Bet. Manix & Cronise Lake	16.1	4/29/50	Basich Bros. Const. Co. & N.L. & R.L. Basich	Widen & P.M.S. on I.B.M.	217,737	16,407	*234,144
8VS	San Bernardino	31	J	Bet. Field & Summit	---	7/6/46	Day Labor	Experimental Blanket	6,951	---	6,951
1-14VC92	San Bernardino	31	K, L, N	Bet. 6 Mi. W. of Baker & Mountain Pass	---	9/15/49	E. L. Thorsten	Redeck 15 Timber Brs.	65,575	7,587	73,162
0-14VC68	San Bernardino	31	N, P	Bet. W. of Mountain Pass & S. of Nevada State Line	---	9/18/48	Thomas Const. Co.	Redeck 6 Timber Brs.	38,808	7,956	46,764
0-8VC28	San Bernardino	31	Q, SBd	Bet. Grant Ave. & Highland Ave.	1.8	8/23/48	Geo. Herz & Co.	P.M.S.	191,691	16,729	208,420
52-8VC2	San Bernardino	31, 58	Bsw, G	Through Barstow & Bet. Main St. & N. Jct. with Rte. 58	3.4	4/2/51	Peter Kiewit Sons' Co.	P.M.S.	68,815	5,950	*74,765
52-8VC8	San Bernardino	31	Col	Bet. Rte. 26 & Grant Ave.	1.3	6/23/51	Hubbs Equip. Co.	Widen & P.M.S.	97,421	15,650	*113,071

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
0-8VC30 51-8VC12-P	San Bernardino San Bernardino	31 31, 190	SBd SBd	Mt. Vernon Ave. at Rialto Ave. At Mt. Vernon-El Cajon Blvd. & at 1 St.	---	8/23/48 2/20/51	Ed Seymour Fischbach & Moore of Calif., Inc.	Signals & Lights. Signals & Lights.	\$10,987 34,649	\$679 2,000	\$11,666 *36,649
8XC9 1-8VC47-P	San Bernardino San Bernardino	43 43, F&S 925	A A, B	Bet. 8.6 Mi. & 11.7 Mi. N. of San Bernardino. Bet. Jct. with Rte. 189 & Lake Gregory Rd., at Squirrel Inn.	0.4	10/ 4/46	Geo. Herz & Co.	Widen & P.M.S.	48,831	2,662	51,493
8XC8 1-8VC36 51-8VC7	San Bernardino SBd, Riv SBd, Riv	43 43 43	B, C C, F, Riv C, F, Riv	Bet. Squirrel Inn & Big Bear Dam See Riverside County See Riverside County	0.3 13.8	6/13/50 6/28/46	Ken Lowe R. R. Hensler	Grade & P.M.S. R.M.S. & Sl. Ct.	59,194 99,108	8,175 11,021	67,369 110,129
8XC10 52-8VC10-P	San Bernardino San Bernardino	43 43, 9	L SBd	Bet. 1 Mi. E. of Victorville & Victorville. On E. St., Bet. Rialto Ave. & 5th St.	1.4	3/ 6/47	Match Bros.	Grade & B.S.T.	101,036	8,247	109,283
1-14VC91 14VC50	San Bernardino San Bernardino	58 58	K, L L	Bet. Amboy & Needles Across Teviot Creek.	---	8/14/51 8/25/49	Fischbach & Moore E. S. & N. S. Johnson	Signals & Lights. Redeck 18 Timber Brs.	22,025 89,951	1,503 8,963	*23,528 98,914
0-14VC69 0-8VMC5-P	San Bernardino San Bernardino	58 58	N N, Ned	Bet. 4.0 & 0.5 Mi. W. of Java. Bet. R. St. & Walnut St.	0.4	9/29/48 5/ 6/49	Covina Const. Co. Ken Lowe	Redeck 6 Timber Brs. Grade & B.S.T. on I.B.	62,270 10,890	7,030	69,300 10,890
8VLC1 1-8VC40	San Bernardino San Bernardino	58 59	P C	Bet. 11 Mi. E. of Needles & Red Rock Br. Bet. 0.9 Mi. & 3.8 Mi. E. of Rte. 31.	2.9 2.9	3/13/47 6/22/49	Arthur A. Johnson Herz Paving Co.	Grade & B.S.T. B.S.T.	59,612 9,606	4,901 1,501	64,513 11,107
51-8VC2 0-8VC29	San Bernardino San Bernardino	190 190	B C	Bet. 0.1 Mi. W. of Riverside Ave. & 0.1 Mi. W. of Cajon Cr. Bet. E. Base Line Ave. & Orange St.	1.0 1.6	4/ 1/50 9/24/48	R. A. Erwin Match Bros. & E. L. Yeager	Grade, I.B. & P.M.S. Grade, P.M.S. & 2 R.C. Brs.	49,445 392,491	8,500	*57,945 422,193
14XLC7 8V39	San Bernardino San Bernardino	190 190	D E	Across Mill Creek. Bet. Igo & 2.2 Mi. E'ly.	---	6/21/46 5/24/51	Bent Const. Day Labor	Sl. Br. & P.M.S. on Apps. Widen & P.M.S.	97,666 29,637	11,107 500	108,773 *30,137
1-8VC38	San Bernardino	190	G	Bet. Erwin Lake & 1 Mi. E. Rte. 43.	3.0	6/18/49	Geo. Herz & Co.	Resurf. with B.S.T.	19,214	2,790	22,004

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
51-8VC3	San Bernardino	190	Rld	Bet. N.C.L. & Rte. 26 & Bet. Orange St. & E.C.L.	4.4	4/28/50	Geo. Herz & Co.	Resurf. with P.M.S.	\$30,780	\$2,527	\$33,307
1-8VC43	San Bernardino	190	Sbd	Bet. E St. & E.C.L.	1.8	3/31/50	Geo. Herz & Co.	Widen & P.M.S.	123,177	18,603	141,780
1-8VC49	San Bernardino	190	Sbd	Bet. Waterman Ave. & E.C.L.	0.9	6/28/50	Geo. Herz & Co.	P.M.S., Curbs & Gutters	21,072	2,323	23,395
51-8VC11	San Bernardino	190	Sbd	At I Street & Highland Ave.		2/ 5/51	Geo. Herz & Co.	Grade, P.M.S. & Drainage Improvement	9,896	1,250	*11,146
51-8VC5	San Bernardino	192	A, Ont	Bet. 0.3 Mi. S. of S.C.L. of Ontario & Dessau St.	1.4	9/12/50	Cox Bros. Const. Co.	Grade & P.M.S. on I.B.M.	24,686	2,580	27,266
1-8VC35	San Bernardino	192	Upl	On Euclid Ave. Bet. Arrow Hwy. & 0.1 Mi. N. of 14th St.	1.1	4/ 7/49	Matich Bros.	Resurf. with P.M.S.	9,436	887	10,323
8XC7	San Bernardino	207	A	Bet. Highland Ave. & City Cr. Br.	3.2	5/16/46	Denni Investment Corp.	Grade, P.M.S. & R.C. Br.	694,862	82,321	*777,183
8XC14-F	San Bernardino	207	A	Bet. City Cr. Br. & Plunge Cr. Br.	4.3	9/30/47	Westbrook & Pope	Grade, P.M.S. & R.C. Br.	783,457	85,615	*869,072
8X10	San Bernardino	207	A	Bet. Highland Ave. & City Cr. Br.		2/ 9/48	Day Labor	Erosion Control	4,909		4,909
0-8VC18	San Bernardino	207	A	Bet. 0.7 Mi. E. of Plunge Cr. & Long Point Springs	1.8	4/ 1/48	Claude P. Fisher Co., Ltd. & L. R. & R. S. Crow	Grade & P.M.S.	736,756	77,929	814,685
8V35	San Bernardino	207	A	Bet. 0.7 Mi. E. of Plunge Cr. & Long Point Springs	1.8	9/13/48	Day Labor	Signs & Stripe	5,350		5,350
1-8VC31	San Bernardino	207	A	Bet. Long Point & 1.3 Mi. W. of Running Springs	4.0	4/ 6/49	Fredericksen & Kasler	Grade & P.M.S.	875,750	105,000	*980,750
8V37	San Bernardino	207	A	Bet. Long Point & 1.2 Mi. W. of Running Springs		7/ 1/49	Day Labor	Erosion Control	6,980		6,980
1-8VC44-F	San Bernardino	207, 43	A, C	Bet. 1.3 Mi. W. of Running Springs & Running Springs	1.7	4/29/50	Hess Const. Co.	Grade, P.M.S. & 2 R.C. Brs.	394,464	68,000	*462,464
51-8VC8	San Bernardino	212	A, B	Bet. Kern Co. Line & 5.5 Mi. E. of Salt Wells	14.8	6/14/50	Oilfields Trucking Co. & Phoenix Const. Co., Inc.	Grade & R.M.S. on I.B.M.	122,528	17,108	139,636
52-8VC6	Sbd, Riv, Ora.	Var	Var	Various Locations	45.2	6/20/51	George Herz & Co.	Seal Coat	84,820	8,700	*93,520
51-8DC1	San Bernardino	FAS 692		Bet. Foothill Blvd. & Phillips Blvd.	4.1	9/12/50	Hess Const. Co., Inc.	Grade & P.M.S. on I.B.M.	182,199	1,155	183,354
51-8DC3-P	Sbd, Riv.	FAS 693		Bet. Los Angeles Co. Line & Rte. 19	11.7	3/29/51	E. L. Yeager Co.	Grade, P.M.S. & Widen R.C. & Stl. Bridge	378,829	4,100	*382,929
8DC5	Sbd, Riv.	FAS 695		See Riverside County							
8DC7	San Bernardino	FAS 698		Bet. Valley Blvd. & Foothill Blvd.	2.6	8/ 9/48	Matich Bros.	Grade & P.M.S.	141,142	11,457	152,599

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
52-8DC2-P	San Bernardino	FAS 705		On Sierra Ave., Bet. Valley Freeway & Highland Ave.	4.7	8/ 9/51	Match Bros.	Grade & P.M.S. on C.T.B.	\$202,569	\$3,500	*\$206,069
8DC4	San Bernardino	FAS 706		Bet. Riverside Ave. & Colton	2.1	8/ 7/47	T. M. Page	Grade & P.M.S.	53,350	6,047	59,397
8DC6	San Bernardino	FAS 711		Bet. Waterman Ave. & 0.2 Mi. E. of City Cr.	4.5	3/26/48	E. L. Yeager	Grade, P.M.S. & Silt Br.	229,884	23,723	253,607
8DC2	San Bernardino	FAS 712		On Waterman Ave., Bet. Riverside-Redlands Rd. & Mill St.	2.7	4/ 8/47	Griffith Co.	Grade, P.M.S. & 2 Silt Brs.	380,790	15,451	396,241
8DC8	San Bernardino	FAS 714		Pigeon Pass Rd.	8.4	1/ 7/49	Basich Bros. Const. Co. & Basich Bros.	Grade & P.M.S.	433,866	25,191	*459,057
8DC10-P	San Bernardino	FAS 925		Bet. Rte. 43 & Huston Flat	2.2	8/13/49	Spicer Co.	Grade & B.S.T.	227,993	2,403	230,396
	San Bernardino			Various Locations				Minor Contracts & D.L. Projs.	80,025		*80,025
11VC12	San Diego	2	A	Bet. 9th St. & Luneta Dr. in Del Mar	0.6	9/13/46	V. R. Dennis Const. Co.	Widen with A.C. & P.M.S. Shldr.	21,332	3,972	25,304
11VC16	San Diego	2, 12	A, B, EC	In Del Mar, Solana Beach, Encinitas, Carlsbad, & El Cajon		6/30/47	Tri-Cities Elec. Serv.	Signals & Lights	54,570	3,872	58,442
1-11VC37	San Diego	2	A, B, C, D	Bet. Del Mar & San Onofre	11.2	4/14/50	Griffith Co.	Resurf. with P.M.S.	184,080	14,211	198,291
11VC9	San Diego	2	B, C, D	Bet. Leucadia & San Mateo Creek	6.2	5/29/46	N. M. Ball Sons.	Repair with P.M.S. on I.B.M.	55,573	3,635	59,208
1-11VC45	San Diego	2	B, C	Bet. San Marcos Cr. & Carlsbad & Bet. Oceanside & Las Flores	4.3	5/13/49	R. P. Shea Co.	Resurf. with P.M.S.	59,830	7,634	67,464
51-11VC13-F	San Diego	2	B	Bet. 0.7 Mi. S. of San Marcos Cr. & 2.2 Mi. S. of Carlsbad	3.2	6/28/51	Cox Bros. Const. Co.	Grade, P.C.C. on C.T.S., P.M.S., 3 R.C. Brs. & R.C. Culv.	689,338	90,000	*779,338
14VC1	San Diego	2	C	Over A.T. & S.F. Ry., 1 Mi. N. of Oceanside		12/28/45	Fred D. Kyle	Steel Overhead	85,806	12,168	97,974
11VC11	San Diego	2	C	At Main Entrance to Camp Pendleton		7/22/46	Tri-Cities Elec. Serv.	Signals	5,490	112	5,602
11VC5	S. D. Ora.	2	D, SCle	Bet. Las Flores Cr. & San Clemente	9.5	9/20/45	N. M. Ball Sons.	Grade, P.C.C. & A.C.	678,642	59,617	738,259
14VC6	San Diego	2	D	Across San Mateo Cr. about 18 Mi. N. of Oceanside		8/24/45	Oberg Bros.	R.C. Bridge	140,199	14,629	154,828
11X27	San Diego	2	F	At Border Airport Curve, 2.5 Mi. N. of San Ysidro		5/ 3/46	Day Labor	Superelevate Curve	5,195	125	5,320

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
11XC11	San Diego	2, 199, 12	F, A, B, E, Cj	Bet. San Ysidro & Chula Vista; Bet. Rte. 2 & Imperial Beach; & Bet. Grossmont & El Cajon.	9.3	5/29/46	R. E. Hazard Contr. Co.	Repair with I.E.M. & P.M.S.	\$111,306	\$5,541	\$116,847
11X28	San Diego	2	F	Bet. 1.5 Mi. N. of San Ysidro & 2 Mi. S. of Olay.	1.0	6/11/46	Day Labor	Experimental Surf.	14,089	655	14,744
52-11VC9	San Diego	2, 199, 200	F, A, SD	At Intras. Nat'l. Ave. with Main St. & Federal Blvd. with 47th St.		7/23/51	Calif. Elec. Works	Signals, Lights & Chnlz.	40,679	4,200	*44,879
51-11VC10-F	San Diego	2	G, ChV	Bet. Elm Ave. in Palm City & G St. in Chula Vista.	3.8	3/ 8/51	Griffith Co.	Grade, P.M.S. on C.T.B. & 6 R.C. Brs.	1,270,652	150,000	*1,420,652
51-14VC1	San Diego	2	G, ChV	At Main St. & at H St.		6/ 5/50	Charles MacClosky Co.	2 R.C. OC's & Apps.	147,973	18,778	166,751
11XC20	San Diego	2	ChV	Bet. S.C.L. & N.C.L.	2.3	7/31/47	R. E. Hazard Contr. Co.	P.M.S.	50,512	2,294	52,806
1-11VC2-P	San Diego	2	ChV, NatC	National Ave. at E St. & 18th St.		8/29/49	Tri-Cities Elec. Serv.	Signals & Stripe	19,250	419	19,669
1-11VC48-F	San Diego	2	NatC, G, ChV	Bet. H St. in Chula Vista & 14th St. in National City	2.6	11/ 4/49	Chas. MacClosky Co., E. Hazard Contr. Co., & C. G. Willis & Sons, Inc.	Grade, P.M.S. 3 SH UP's, 2 R.C. Brs., 2 R.C. UC's & 1 R.C. OC	1,413,961	172,000	*1,585,961
11V57	San Diego	2	NatC	Bet. 7th St. & 16th St.		4/ 5/50	Day Labor	Detours.	3,458		3,458
1-11VC60	San Diego	2	NatC	Bet. 16th St. & 7th St. Channel	0.7	5/11/50	R. E. Hazard Contr. Co.	Grade, I.S.M. C.T.B. & P.M.S.	122,623	13,207	135,830
51-11VC6	San Diego	2	NatC	At 8th Street & Harbor Drive		10/18/50	Calif. Elec. Works	Signals & Lights	10,480	970	11,450
51-11VC12	San Diego	2	NatC, ChV	At 18th St. 24th St. & E St.		6/15/51	Calif. Elec. Works	Lights	3,741	500	*4,241
32-11VC14	San Diego	2	NatC, SD	Bet. 7th St. in National City & 32nd St. in San Diego (Por.)	0.8	2/14/52	Pacific Fence Co.	Chain Link Fence & Median Lanes	6,686	900	*7,586
11VC7	San Diego	2	Oen, C	Bet. San Luis Rey Riv. & 0.2 Mi. N. of Aliso Cr.	4.9	12/ 7/45	Basinh Bros. Const. Co. & Basch Bros.	Grade, P.C.C. & Resurf. Portions with A.C.	600,096	64,861	664,957
11V16	S, D, Ora.	2	Oen, C, D	Bet. Oceanside & San Clemente		3/25/46	Day Labor	Signs & Stripe	7,344		7,344
11VC23-P	San Diego	2	SCle Oen	At Wisconsin Ave., 2d St., 3d St., & 6th St.		2/20/48	Calif. Elec. Works	Signals	23,965	425	24,390
11VC29-P	San Diego	2	Oen	At Hill St. & Vista Way		6/10/48	Tri-Cities Elec. Serv.	Signals	8,881	876	9,757
51-11VC7-P	San Diego	2	Oen	At Hill St.		12/20/50	Calif. Elec. Works	Signals & Lights	10,660	874	11,534

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
51-11VC11-F	San Diego	2	Ocn	Bet. 0.3 Mi. S. of Mission Ave. & San Luis Riv.	1.0	3/23/51	Cox Bros. Const. Co.	Grade, P.C.C. on C.T.S. & 3 R.C. Grade Sep. Strucs.	\$977,574	\$111,000	\$1,088,574
14VMC1	San Diego	2	SD	At Switzer Canyon OH. near 10th St.	---	3/10/47	C. B. Tuttle Co.	Redeck R.C. OH.	47,143	---	47,143
11VMC7	San Diego	2	SD	Bet. Tecolote Cr. & Balboa Ave.	2.5	12/ 8/47	R. E. Hazard Contr. Co.	Grade, I.B., & P.M.S.	45,593	---	45,593
11VMC0-P	San Diego	2	SD	At 5th Ave. & Harbor Dr.	---	3/ 4/48	Tri-Cities Ele. Serv.	Signals	9,655	---	9,655
11VMC11	San Diego	2	SD	On Pacific Hwy. at Balboa Ave.	0.1	3/ 5/48	R. E. Hazard Contr. Co.	Grade, A.C. & Chnlz.	21,612	---	21,612
11VMC3-P	San Diego	2	SD	At Pacific Hwy. & Balboa Ave.	---	4/ 6/48	Calif. Ele. Works	Signals & Lights.	11,257	---	11,257
1-11VC4	San Diego	2	SD	At Juliett St.	0.3	3/20/50	V. R. Dennis Const. Co.	Grade & P.M.S. on I.B.M.	15,457	3,268	18,755
1-11VMC21	San Diego	2	SD	Bet. Miramar & Torrey Pines Grade	2.4	4/29/50	R. E. Hazard Contr. Co.	P.M.S. on Shldr.	12,923	---	12,923
1-11VC-P	San Diego	2	SD	At 8th Ave.	2.4	6/14/50	V. R. Dennis Const. Co.	Signals & Lights.	34,555	2,297	36,855
51-11VC2	San Diego	2	SD	Bet. Coutis St. & Rosecrans.	0.7	7/20/50	Cox Bros. Const. Co.	Grade & P.M.S.	59,626	7,414	67,040
51-14VC15-Y	San Diego	2	SD	Across San Diego River	---	2/26/51	Guy F. Atkinson Co.	Steel Bridge.	348,859	37,000	*385,859
52-11VC6	San Diego	2	SD	At 8th Ave.	---	---	---	---	---	---	---
51-11VC14-P	San Diego	2	SD	Bet. Balboa Ave. & Las Flores	5.2	6/ 6/51	Griffith Co.	P.M.S.	110,532	13,000	*123,532
52-11VC7-P	San Diego	2	SD	Bet. E St. & Date St.	---	6/28/51	Eis-Hokin & Galvan, Inc.	Signals, Lights & Chnlz.	35,596	4,000	*39,596
52-11VC13-P	San Diego	2	SD	At Intrs. of Pacific Hwy. with Washington St.	---	7/ 3/51	Eis-Hokin & Galvan, Inc.	Signals & Chnlz.	24,081	2,000	*26,081
52-11VC13-P	San Diego	2	SD	At Intrs. Pacific Hwy. with Miramar Rd.	---	2/21/52	Cox Bros. Const. Co.	Signals, Lights & Chnlz.	43,459	6,000	*49,459
11VC17	San Diego	12	A, LMsa, B, ECj	Bet. San Diego & El Cajon.	2.9	7/31/47	Griffith Co.	P.M.S.	42,564	2,102	44,666
51-11VC9	San Diego	12	B	At E. La Mesa Blvd., Fuerte Dr., & Murray Ave.	---	1/22/51	R. E. Hazard Const. Co., Inc.	Signals, Lights & Chnlz.	43,298	3,723	47,021
11V46	San Diego	12	D	Bet. Willows & Sweetwater Riv.	6.3	4/22/48	Honor Camp Labor.	Grade	187,570	11,064	208,634
11V53	San Diego	12	D	Bet. Willows & Sweetwater Riv.	6.3	9/ 3/48	Honor Camp Labor.	Grade	162,700	16,685	209,385
11V55	San Diego	12	D	Bet. Willows & Descanso Junction.	7.0	7/ 1/49	Honor Camp Labor.	Grade	689,973	48,102	*738,075
1-14VC90	San Diego	12	D	Across Viejas Cr., 3 Mi. E. of Alpine.	---	7/22/49	E. G. Perham	Conc. Bridge	49,921	8,922	58,843
1-11VC62	San Diego	12	D	Bet. The Willows & 4 Mi. E.	3.9	6/29/50	Clyde W. Wood & Sons, Inc.	Grade & P.M.S. on U.R.B.	469,750	56,000	*525,750
11V59	San Diego	12	D	Prison Camp 40	---	8/16/50	Day Labor	Upkeep Cost.	2,587	---	2,587
52-11VC1	San Diego	12	ECj, B, C	Bet. Chambers St. & 2nd St.	2.0	4/ 2/51	R. E. Hazard Contr. Co.	Grade & P.M.S.	191,951	25,000	*216,951
11GC3	San Diego	City St.	SD	On Washington St., Normal St., & El Cajon Blvd.	1.1	9/ 8/47	Griffith Co.	Grade, P.C.C. & P.M.S.	209,776	18,040	227,816
11VC22-P	San Diego	City St.	SD	On Washington St. & El Cajon Blvd.	---	2/20/48	Tri-Cities Ele. Serv.	Signals & Lights.	42,963	737	43,700

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
11VMC12-P	San Diego	12, 200	SD	At College Ave. & El Cajon Blvd. & at 30th St. & Market St.		3/23/48	Els-Hokin & Galvan	Signals	\$18,631		\$18,631
0-11VMC18	San Diego	12, 2, 200	SD	Three Locations		10/19/48	Griffith Co.	Resurf. with P.M.S.	230,531		230,531
1-11VMC20	San Diego	12	SD	On Canyon St., Bet. Rosecrans St. & 0.5 Mi. W.	5.9	6/28/49	Pace Const. Co.	Resurf. with P.M.S. & Storm Drains	86,157		86,157
1-11VVC3-P	San Diego	12, 200	SD	At El Cajon Blvd. & Market St.		11/4/49	Els-Hokin & Galvan	Signals & Lights	25,541	\$1,343	*26,884
1-11VVC7-P	San Diego	12	SD	At Canon Street		6/20/50	Els-Hokin & Galvan	Signals	4,396	491	4,887
51-11VVC8-P	San Diego	12, 200	SD	At Market St. & Kettner Blvd.		1/15/51	California Elec. Works	Signals & Lights	22,756	2,000	*24,756
52-11VVC16-P	San Diego	12	SD	At Inters. El Cajon Blvd. with Oregon St., Euclid Ave., 54th St. & 70th St.		3/7/52	Els-Hokin & Galvan	Ped. Signals	2,941	300	*3,241
0-11VVC30-P	San Diego	77	A, B	Bet. Miramar & Lake Hodges	12.0	6/16/48	Griffith Co.	Grade, P.M.S. & 2 R.C. Brs.	1,655,459	114,378	1,769,837
0-11VVC36	San Diego	77	A	Bet. N. of San Diego City Limits & Murphy Canyon Rd.	2.8	8/6/48	V. R. Dennis Const. Co.	Resurf. with P.M.S.	38,384	3,090	41,474
0-11VVC41	San Diego	77	A	Bet. San Diego & Miramar	6.5	11/10/48	R. E. Hazard Contr. Co., Inc. & C. G. Willis & Sons, Inc.	Grade & C.T.B.	686,895	64,142	751,037
1-11VVC51-F	San Diego	77	A	Bet. N.C.L. of San Diego & Miramar	6.5	11/18/49	Cox Bros. Const. Co.	P.M.S. on C.T.B.	435,576	54,000	*489,576
1-11VVC86-F	San Diego	77	A, B	Bet. Miramar & Lake Hodges	11.8	4/1/50	Peter Kiewit Sons' Co.	P.M.S.	212,236	18,813	231,049
11VVC35	San Diego	77	B, Est. F	Bet. 0.9 Mi. S. & 0.3 Mi. N. of Escondido	3.0	6/29/48	Griffith Co.	Grade, P.M.S. & 2 R.C. Brs.	607,181	69,811	676,992
0-11VVC46	San Diego	77	B, Est	Bet. 15th Ave. & Grant Ave.	1.7	6/18/49	Jannoch Nurseries	Landscape	18,534	2,730	21,264
11X30	San Diego	77	F, G	Bet. Escondido & Sta. 380		8/30/46	Honor Camp Labor	Grade	523,200	35,724	558,924
11XC21	San Diego	77	F, G, E, G	Bet. Escondido & 3.4 Mi. S. of Riverside Co. Line	19.6	8/22/47	Morrison-Knudsen Co., Inc.	P.M.S.	208,734	14,459	223,193
11V52	S. D. Riv.	77	F, G, A	Bet. Escondido & Murietta	6.0	7/1/48	Honor Camp Labor	Grade & Drainage	150,300	18,500	168,800
41X4	San Diego	77	G	Bet. S. Moosa Cr. & San Luis Riv.	1.5	6/30/41	Honor Camp Labor	Grade	1,061,201	79,173	1,140,374
14XC12	San Diego	77	G	Across San Luis Rey Riv. & Keyes Canyon Cr.		4/26/46	Spencer Webb	2 Steel Brs.	169,111	18,504	187,705
0-11VVC38	San Diego	77	G	Bet. Riverside Co. Line & 3.4 Mi. South	3.4	9/29/48	Peter Kiewit Sons' Co.	P.M.S.	68,453	3,846	72,299
0-11VVC1	San Diego	77	Est	At 5th Ave. & Grand Ave.		6/28/49	Clinton Elec. Corp.	Signals & Lights	18,589	1,443	19,932
51-11VOC4-P	San Diego	77, 197	Est. F, Est	At Grant Ave. & at Grand Ave.		10/16/50	Els-Hokin & Galvan	Signals & Lights	12,770	1,001	13,881
14XC6-F	San Diego	77	SD	At Date St., Quince St. & Upas St.		12/5/45	M. H. Golden Const. Co.	3 R.C. OC's	188,981	16,935	175,916
14XC7	San Diego	77	SD	Across San Diego Riv.		12/13/45	Harry L. Foster	R.C. Bridge	178,002	15,377	193,379

COMPLETED CONTRACTS—June 30, 1952—Continued

[Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost.	Const. engr.	Total
11XC9	San Diego	77	SD	Bet. A St. & 0.4 Mi. S. of Mission Valley Rd.	2.9	1/11/46	Mittry Bros. Const. Co. & Basich Bros. Const. Co.	Grade & P.C.C.	\$1,384,011	\$122,945	\$1,506,956
14XC9	San Diego	77	SD	Balboa Pkwy. at Richmond St.		2/20/46	M. H. Golden Const. Co.	R.C. Overcrossing	60,178	9,974	70,152
11XC10	San Diego	77	SD, A	Bet. 0.4 Mi. S. of Mission Valley Rd. & 0.5 Mi. N. of San Diego City Limits	4.1	5/15/46	Basich Bros. Const. Co.	Grade & P.C.C.	1,121,774	102,836	1,224,610
14XC13	San Diego	77	SD	At Friar's Rd.		6/25/46	Frederick D. Kyle	Steel OC	56,117	7,772	63,889
14XC15	San Diego	77	SD	At University Ave.		6/25/46	M. H. Golden Const. Co.	R.C. Overcrossing	131,091	11,375	142,466
14XC14	San Diego	77	SD	At Mission Valley Rd.		6/26/46	M. H. Golden Const. Co.	R.C. OC's	248,800	17,633	266,433
14XC16	San Diego	77	SD	Balboa Pkwy. at Pascoe St.		8/ 8/46	Carroll & Foster	R.C. Overcrossing	74,606	8,784	83,390
14XC17-F	San Diego	77	SD	Balboa Pkwy. at 6th St.		8/ 8/46	M. H. Golden Const. Co.	R.C. Undercrossing	111,633	9,253	120,886
11XC16	San Diego	77	SD	Bet. A St. & 0.4 Mi. S. of Mission Valley Rd.	2.9	4/21/47	Jannoch Nurseries	Landscape	72,369	6,739	79,108
11XC19	San Diego	77	SD	Bet. 11th Ave. & A St.		8/ 1/47	Tri-Cities Etc. Serv.	Signals & Lights	9,507	721	10,228
11XC43	San Diego	77	SD, A	Bet. A St. & 0.5 Mi. N. of San Diego City Limits	7.0	8/ 5/49	Day Labor	Signs & Stripe	8,471		8,471
1-11VC47	San Diego	77	SD	Bet. A St. & Friar's Rd.		8/28/47	State Const. Co.	Lights	73,158	5,468	84,626
14XC6	San Diego	78	A	Across Sanagatuna Cr. & Descanso Cr.		5/16/46	Oberg & Cook	2 R.C. Bridges	88,860	8,320	97,380
1-14VC83	San Diego	78	A	Across Sweetwater Riv.	0.4	4/13/49	Thomas Const. Co.	Conc. Br. & Apprs.	65,376	8,316	73,692
51-11VC1	San Diego	78	A, B	Across Boulder & Sevilla Crs.	1.0	5/11/50	Arthur A. Johnson	Multi-Pl. Culvs. & Apprs.	35,597	12,570	68,167
11XC14	San Diego	78	B, C	Bet. 0.9 Mi. E. Santa Ysabel & 2.4 Mi. W. of Julian	1.3	2/17/47	Clifford C. Bong & Co.	Grade & B.S.T.	118,826	10,982	129,808
0-11VC37	San Diego	78	B, C	Bet. Julian & Santa Ysabel	1.5	9/ 1/48	E. C. Young & Co.	Grade & B.S.T.	180,871	19,484	200,355
1-11VC43	San Diego	78, 198	C, H	Near Santa Ysabel & W. of Ramona	1.3	5/ 6/49	Clifford C. Bong & Co.	Grade, B.S.T. & Sl. Ch.	71,342	9,186	80,528
14XC10	San Diego	78	D, E	Across Matagual Valley Cr., Canada Verde Cr. & Acorn Cr.		4/ 1/46	O'Rourke & Parker	3 R.C. Bridges	40,214	4,699	44,913
14VC42	San Diego	78	D	Bet. Agua Caliente Cr. & Buena Vista Cr.	0.5	12/17/47	E. S. & N. S. Johnson	2 R.C. Brs. & Apprs.	84,897	10,800	95,696
11VC19	San Diego	78, 195	E, C	Bet. 3.1 Mi. & 3.5 Mi. N. of San Luis Rey Riv. & Bet. Colby Ranch & Rincon Store	1.1	12/30/47	Arthur A. Johnson	Grade & B.S.T.	41,041	4,850	45,891
11V41	San Diego	195	B	At Live Oak Cr.		2/ 2/48	Day Labor	Grade Apprs.	13,444	798	14,242
0-14VC59	San Diego	195	B	Across Live Oak Cr.		6/28/48	R. C. Perlman	R.C. Bridge	3,453	3,453	22,022
52-14VC1	San Diego	195	B	Across Hancha Cr.		6/21/51	Emier Bros., Inc.	R.C. Br. & Apprs.	18,569	7,500	*50,541
51-11VC3-P	San Diego	195	Ocn	Bet. Horne St. & Canyon Dr.	0.7	7/26/50	Arthur A. Johnson	I.B.M. & B.S.T.	40,994	11,808	52,802

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
14XLC8	San Diego	197	B	Across Santa Ysabel Cr.	---	11/ 1/46	Spencer Webb	Steel Br. & Apprs.	\$225,425	\$18,387	\$243,812
14VC48	San Diego	198	f	Across San Felipe Cr., E. of Julian	0.3	2/16/48	Walter H. Barber	R.C. Br. & Apprs.	89,936	9,446	99,382
14VC41	San Diego	198	ECj	Across Wright St. Cr.	---	12/11/47	Johnson-Western Co.	R.C. Culvert	16,039	2,128	18,167
11VC25	San Diego	199	A	At National Ave. & Palm Ave.	---	3/22/48	Ets-Hokin & Galvan	Signals	5,013	338	5,351
0-11VMC19-P	San Diego	199	Cord	On Orange Ave.	1.5	10/19/48	R. E. Hazard Const. Co.	Resurf. with P.M.S.	64,059	---	64,059
14XLC9	San Diego	200	B	Across Dulzura Cr., about 5 Mi. S. of Jamul	0.3	4/10/47	Griffith Co.	R.C. Br. & Apprs.	76,748	6,454	83,202
11V54	San Diego	200	C	Cottonwood Cr.	---	12/17/48	Day Labor	Fill	7,416	26	7,442
14XLC5	San Diego	200	D	Across Campo Cr., about 6 Mi. W. of Campo	---	12/21/45	Walter H. Barber	Steel Br. & Apprs.	81,318	9,227	90,545
52-11VC8	San Diego	200	D	Bet. Dulzura & Campo	0.8	7/ 3/51	Cox Bros. Const. Co.	Grade & B.S.T.	102,986	10,000	*112,986
11VC24-P	San Diego	200	SD	At Euclid Ave. & Federal Blvd.	---	3/11/48	Calif. Ele. Works	Signals	9,950	860	10,810
51-11DC2-P	San Diego	FAS	---	Bet. Rte. 77 & Co. Rd. Survey 944	3.6	4/24/51	Ralph A. Bell	Grade	199,517	18,065	*217,582
11DC1-P	San Diego	729	---	Bet. Fairmont Ext. & Rte. 12	5.0	9/27/48	Daley Corp.	Grade, B.S.T. & Std. OH	750,058	44,498	794,556
11DC4-P	San Diego	732, 12 FAS	---	On Mission Valley Rd., near Ints. Alvarado Canyon Rd. & Fairmont Ext.	---	11/ 7/49	Griffith Co.	72-Inch Pipe Culv.	33,892	2,015	35,907
51-11DC1-P	San Diego	FAS	---	Bet. Fairmont Ave. & 6th St. Ext.	3.7	7/21/50	Griffith Co.	Grade & P.M.S.	818,477	82,536	*901,013
---	San Diego	732	---	Various Locations	---	---	---	Minor Contracts & D.L. Projs.	85,218	34	*85,252
14TMC1	San Francisco	2	SF	Br. over Presidio	---	11/ 6/46	R. W. Reade & Co.	Clean & Paint Br.	41,615	---	41,615
4764	San Francisco	2	SF	On Alemany Blvd., Bet. Mission St. & Sta. 36	---	5/12/47	State's Share of Cost	Grade & Paye	98,000	---	98,000
51-14TC30	San Francisco	2	SF	Across Presidio	---	6/ 2/51	Eaton & Smith	Repair R.C. Br.	45,277	7,500	*52,777
1573	S. F. Ala	68, 5	SF-Oak	San Francisco-Oakland Bay Br.	---	7/19/45	Day Labor	Insurance	130,410	---	130,410
1575	S. F. Ala	68, 5	SF-Oak	San Francisco-Oakland Bay Bridge	---	8/10/48	Gov. F. Atkinson Co. and Charles L. Haney, Inc.	Maint. & Operation	1,180,846	---	1,180,846
1-4TC82-F	San Francisco	68	SF	Bet. Augusta St. & 26th St.	1.3	5/11/49	---	Grade, P.C.C. P.M.S. Std. UC, & Sup. & R.C. UC., OC. & Ped. UC., & Signals	3,023,729	390,000	*3,413,729

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost.	Const. engr.	Total
1-15TC3	San Francisco	68	SF	San Francisco-Oakland Bay Bridge at Pier W-5.		8/25/49	Healy Tibbitts Const. Co.	Repair Fender.	\$15,411		\$15,411
1-15TC4	San Francisco	68	SF	San Francisco-Oakland Bay Bridge.		6/22/50	Calif. Steel Prod. Co.	Painting Scaffolds.	41,751		*41,751
51-15TC1	San Francisco	68	SF	San Francisco-Oakland Bay Bridge at Harbor Pier No. 24.		3/26/51	Grinnell Co. of the Pacific	Sprinkler System.	1,300		*1,300
51-15TC2	San Francisco	68	SF	San Francisco-Oakland Bay Br.		4/2/51	Calif. Steel Prod. Co.	Painting Scaffold Tracks	20,840		*20,840
4765	San Francisco	68	SF	Bet. Marin St. & Waterloo Rd.		4/27/51	Day Labor	Grade & Pave.	96,000		96,000
52-4T14	San Francisco	68	SF	At DoIDGE-Koren Paint Co. Plant.		10/31/51	Day Labor	Drainage.	11,390	\$1,500	*12,890
	San Francisco			Various Locations.				Minor Contracts & D.L. Projs.	1,831		*1,831
10TC15	S. J. Sta.	4	A, B, Rip	See Stanislaus County							
10TC24	S. J. Sta.	4	A, B, Rip	See Stanislaus County							
14TC21	S. J. Sta.	4	A, B	See Stanislaus County							
10TC14	San Joaquin	4	C	Bet. Calaveras Riv. & Lodi.	8.2	6/22/46	Fredrickson & Watson Const. Co.	Grade, P.C.C. & 3 Conc. Brs. Barrier Posts.	813,602	65,547	879,149
10TC23	San Joaquin	4	C	Bet. Calaveras Riv. & Lodi.		8/28/47	F. Kaus.		25,170	4,353	29,523
0-10TMC6-P	San Joaquin	4	C, Lod	At Cherokee Lane & Lodi Ave. & at Pine St. & Victor Rd.		8/3/48	Eite-Hobin & Galvan	Signals.	9,605		9,605
1-10TC52	San Joaquin	4	C	Bet. Calaveras Riv. & Lodi.	6.9	7/7/49	Claude C. Wood Co.	P.M.S. Crossovers.	31,198	3,532	34,730
10TL2	San Joaquin	4	E	Across Little John Cr. & S. Branch of Little John Cr., Br. No. 29-17, 18.		9/21/44	Day Labor	Repair 2 Timber Brs.	10,476	746	11,222
10TL4	San Joaquin	4	E	Across French Camp Slough & Lone Tree Slough Overflow, Brs. No. 29-19, 20.		10/16/44	Day Labor	Repair 2 Timber Brs.	10,400	749	11,149
10TL5	San Joaquin	4	E	Across Lone Tree Slough Overflows Br. No. 29-21, 22.		11/24/44	Day Labor	Replace Abutments on 2 Timber Brs.	10,782	743	11,525
10TC25-F	San Joaquin	4, 5	E, Sktn, C	Bet. Mariposa Rd. & Calaveras Riv. & Bet. D St. & Rte. 4.	6.3	12/4/47	Lord & Bishop & M J B Const. Co.	Grade, P.C.C., 3 R.C. Brs., Std. Br., & Conc. Grade Sep.	1,482,986	122,321	1,605,307
1-10TC45-F	San Joaquin	4, 5	E, Sktn, C, Sktn	Bet. Mariposa Rd. & Calaveras Riv. & Bet. Wilson Way & Rte. 4.	7.2	4/1/49	United Conc. Pipe Corp.	Grade, P.C.C. & P.M.S.	1,138,421	89,850	1,228,271
1-10TC60	San Joaquin	4, 5	E, Sktn, C, Sktn	Bet. Mariposa Rd. & Calaveras Riv.		3/1/50	R. Gould & Son	Lights	37,368	1,834	39,202
51-10TC10	San Joaquin	4	E, C	Bet. Mariposa Rd. & Waterloo Rd.		8/18/50	Westates Elec. Const. Co.	Signals	33,857	1,900	35,757
52-10TC5	San Joaquin	4, 5	E, Sktn, C, Sktn	Bet. Mariposa Rd. & Calaveras Riv. & Bet. D St. & Rte. 4.	6.8	7/27/51	Huetting-Schroemm & Bennett.	Protective Screen Planting.	8,387	1,900	*10,287

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
1-10TMC9	San Joaquin	4, 24	Lod, C, Lod	Bet. Lockford St. & 0.1 Mi. N. of Lodi City Limits, & Bet. Cherokee Lane & 0.3 Mi. E.	0.6	7/20/49	Claude C. Wood Co.	Widen & Resurf. with P.M.S. on P.C.C. Base.	\$53,999		\$53,999
1-10TC46	S. J. Sta.	4	Rip, C	See Stanislaus County							
10TC12	San Joaquin	5	A, Tra	Bet. Byron Rd. & Banta Rd.	5.5	5/ 6/46	M. J. Ruddy & Son	P.M.S. on Rock Base	137,462	\$11,347	148,809
10TC10	San Joaquin	5	B	Bet. Grant Line Rd. & Mossdale							
14TC10	San Joaquin	5	B	Across Paradise Cut & Paradise Cut	3.8	1/22/46	M J B Const. Co.	Grade & P.C.C.	396,325	45,040	441,365
14TC17	San Joaquin	5	B	Orofflow		1/28/46	Stockton Const. Co.	Std. Br. & R.C. Br.	114,333	13,563	127,896
14TC25-F	San Joaquin	5	B	Across San Joaquin Riv. at Mossdale		11/22/46	Lord & Bishop	Br. Substructure	257,449	13,423	270,872
	San Joaquin	5	B	Across San Joaquin Riv. at Mossdale		9/22/47	Judson-Pacific-Murphy Corp.	Std. Truss Br. Superstructure	436,578	34,360	470,938
10TMC2	San Joaquin	5	Tra	On 11th St. Bet. N. B St. & Central Ave.		10/ 2/47	Charles I. Cunningham	P.C.C.	2,313		2,313
10TC30-P	San Joaquin	5	Tra	Bet. East St. & Roosevelt Ave.		4/ 9/48	Parker Eln.	Signals.	13,499		13,499
1-10TC43	San Joaquin	41	A	Bet. S'ly Boundary & Rte. 5	8.3	4/ 1/49	M. J. Ruddy & Son	Base & Sl. Ct.	125,306	3,653	128,959
1-14TC62	San Joaquin	53	C	Across Potato Slough.		4/ 1/49	R. G. Clifford	Steel Bridge	55,081	4,548	59,629
51-10TC5	San Joaquin	53	C	4 Mi. E. of Terminus.	0.3	4/15/50	Claude C. Wood Co.	Grade & P.M.S. on U.R.B.	23,294	1,875	25,169
1-10TC47	San Joaquin	66	B	Bet. Brennan Rd. & Filly Boundary.	5.2	4/12/49	Granite Const. Co.	P.M.S. on U.R.B.	88,379	11,795	100,174
52-10TC9	San Joaquin	66	B	At 3 Locations Bet. 1.3 Mi. & 4.5 Mi. E. of Manteca	0.2	10/ 1/51	M. J. Ruddy & Son	Grade, P.M.S. on U.R.B. Widen R.C. Br., & 2 R.C. Pipe Structures.	30,742	5,100	*35,842
10WC15	San Joaquin	75	A	Bet. Middle Riv. & Holt	4.4	4/22/47	M J B Const. Co.	P.M.S.	97,071	4,091	101,162
0-14TC56	San Joaquin	75	A	Across Old & Middle Rivers.		12/ 6/48	Lew Jones Const. Co.	Redeck 2 Std. Truss Brs.	64,785	3,647	70,432
1-10TC51	San Joaquin	75	A	Bet. Old Riv. & Middle Riv.	4.3	6/15/49	M. J. Ruddy & Son	P.M.S.	108,987	6,038	115,025
10W43	San Joaquin	75	B	Bet. Beginning of Section & Hewitt Rd.	12.1	8/19/46	Day Labor	Patch & Sl. Ct.	21,525	1,277	22,802
51-10TC14	San Joaquin	75	B	At Mormon Slough & at Lone Oak Cr.		10/31/50	Thomas Const. Co.	Grade, P.M.S. & Remove Brs.	32,900	4,100	*37,000
1-10TC57	San Joaquin	75	Stkn	Bet. French Camp Turnpike & El Dorado St.	0.2	9/15/49	A. Teichert & Son, Inc.	Grade & P.M.S. on U.R.B.	52,161	3,134	55,295
14WLC48	San Joaquin	97	A	Across Calaveras Riv.	0.4	3/13/47	Elmer J. Warner	Grade, P.M.S. & Steel Br.	72,166	7,142	79,308

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
14AN2	San Joaquin	Access		At S.P. & W.P.R.R. on JX & Lathrop Rds.		3/12/45	Day Labor	Flashing Light Signals	\$12,849		\$12,849
14DC47	S. J. Sac	FAS 540		Across Mokelumne Riv.		1/ 7/49	Lord & Bishop	Std. Truss Br. & P.M.S. on Apprs.	264,617	\$20,061	*284,678
10DC9	San Joaquin	FAS 540		On Thornton Rd.	0.8	10/ 5/49	M J B Const. Co.	Grade & P.M.S.	70,875	5,757	*76,632
14DC13	San Joaquin	FAS 901		Across Mokelumne Riv.		4/23/47	A. A. Edmondson & A. L. Miller	Std. & R.C. Br.	164,234	2,437	166,670
10DC5	San Joaquin	FAS 901		Bet. Davis Rd. & Bender Rd.	0.8	8/30/48	Claude C. Wood Co.	Grade & P.M.S.	50,520	3,996	54,516
51-10DC3-P	San Joaquin	FAS 901		Bet. Rte. 4 & Jack Tone Rd.	5.3	10/11/50	M. J. B. Const. Co.	Grade & P.M.S.	183,293	12,000	*195,293
10DC13	San Joaquin	FAS 908		Bet. Rte. 5 & Holly Sugar Spur	3.7	6/22/50	P. J. Moore & Son	Grade & P.M.S. on U.R.B.	104,627	10,009	114,636
	San Joaquin			Various Locations				Minor Contracts & D.L. Projs.	44,774	1,000	*45,774
1-5VC35-F	San Luis Obispo	2	B	Bet. Alascadero & 1 Mi. S. of Templeton	4.1	4/21/50	M.J.B. Const. Co.	Grade, P.M.S. & 2 R.C. Brs.	665,329	96,000	*761,329
5VC14-F	San Luis Obispo	2	D	Bet. San Luis Obispo & Cuesta Grade	2.7	6/20/47	Fredericksen & Kasler	Grade & A.C.	736,207	49,407	785,614
5V18	San Luis Obispo	2	D	Near Santa Margarita		4/ 5/48	Day Labor	Truck Scales	15,420		15,420
1-5VC26-F	San Luis Obispo	2	D	Bet. Cuesta Siding & 1 Mi. S. of Santa Margarita	2.1	4/20/49	Granite Const. Co.	Grade & P.M.S.	459,251	51,782	511,033
5VC15-F	San Luis Obispo	2	E, SLO	Bet. Miles Sta. & Marsh St.	6.6	11/ 4/47	Fredericksen & Kasler	Grade & P.M.S.	1,407,424	92,559	1,499,983
1-5VC2	San Luis Obispo	2	E	At Santa Fe Bridge		11/29/49	Gallagher & Ochs	Lights	2,396	509	2,905
5V9	San Luis Obispo	2	F, E	Bet. Nipomo & Pismo Beach	4.0	4/13/46	Day Labor	Stabilize & Raise Shldrs.	5,674	62	5,736
5VC7	San Luis Obispo	2	F	Bet. Santa Maria Riv. & 1.5 Mi. S. of Nipomo	2.1	6/11/46	Fairey-Hammond, Inc.	P.M.S.	102,962	5,885	108,847
5VC13	SLO, S.B.	2	F, C	See Santa Barbara County		4/ 1/48	Madonna Const. Co.	Grade & P.M.S. on C.R.B.	126,573	7,265	133,838
0-5VC16	San Luis Obispo	2	F	At Deleissigues Cr. & Russel Turn	2.3			Improve 2 Curves	5,917		5,917
5V43	San Luis Obispo	2	PsRs, A	Bet. N.C.L. & 1,300' N.		9/ 7/48	Day Labor	Signals & Lights	16,329	1,700	*18,029
52-5VC6	San Luis Obispo	2, 33	PsRs	At Intrs. of Spring St. with 12th St. & 13th St.		9/13/51	Howard Etc. Co.				
5VC19-F	San Luis Obispo	2	PBch, E	Bet. Pismo Beach & Miles Sta.	4.9	4/29/48	Fredericksen & Kasler	Grade, P.M.S. on C.R.B. & R.C. Br.	1,041,415	87,825	1,129,240

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
5VC17	San Luis Obispo	2	SLO	At Marsh & Higuera St.	---	4/ 6/48	L. H. Leonardi Ele. Const. Co.	Signals	\$15,669	\$619	\$16,288
1-5VC31	SLO, S.B.	2	SLO,E,D	See Santa Barbara County	---	---	---	---	---	---	---
1-5VC29	San Luis Obispo	33, 125	C, D	Bet. Cholame & Kern Co. Line	4.0	5/10/49	Valley Pav. & Const. Co., Inc.	Resurf. with P.M.S.	132,880	19,105	151,985
1-5VC34	San Luis Obispo	33	C	Bet. Rte. 125 & Kern Co. Line	4.2	3/29/50	Granite Const. Co.	P.M.S. on C.T.L.B.	99,195	10,850	110,045
14XLC10	San Luis Obispo	33	D	Across Santa Rosa Cr., 9 Mi. E. of Cambria	---	6/18/47	E. G. Perham	R.C. Bridge	16,675	2,898	19,573
51-5VC1	San Luis Obispo	33	D	Across Black Mtn. Creek	0.1	4/29/50	Thomas Const. Co.	Replace Br. with C.M.P. Culv.	10,554	2,065	12,619
0-14VC52	San Luis Obispo	33	E	Across Rocky Cr., E. of Cambria	---	4/22/48	D. M. Pilburn	R.C. Bridge	15,482	2,011	17,493
5X17	San Luis Obispo	56	A	Bet. Arroyo de La Cruz & San Carpojo Cr.	3.9	3/20/47	Day Labor	Resurface	13,963	319	14,282
52-14VC4	San Luis Obispo	56	A	Across Arroyo de La Cruz About 8.5 Mi. N. of San Simeon	---	9/25/51	Wm. Radtke & Son	Redeck Timber Br. with R.C. Slabs	27,122	3,900	*31,022
1-14VC100	San Luis Obispo	56	C	Across Cayucos Creek	---	5/18/50	Madona Const. Co.	R.C. Br. & P.M.S. on Apprs.	115,112	16,094	*131,206
0-5VC23	San Luis Obispo	56	D	Across San Luisito Cr. & San Bernardo Cr.	0.2	8/16/48	O. R. Ochs & Son	2 R.C. Culvs. & Apprs.	37,776	4,088	41,864
14XLC11	San Luis Obispo	56	E	Across Villa Creek	---	6/24/47	E. G. Perham	R.C. Bridge	27,541	3,707	31,248
5XL8	San Luis Obispo	57	B	At Gifford Cattlepass	---	4/ 9/46	Day Labor	R.C. Bridge	8,636	27	8,663
51-14VC2	San Luis Obispo	57	B	Bet. 38.9 & 46.6 Mi. E. of Santa Maria	---	6/14/50	E. G. Perham	4 R.C. Cattlepasses	27,193	4,798	31,991
52-5VC4-F	San Luis Obispo	125	A	Bet. 2.6 Mi. & 5.0 Mi. E. of Rte. 56	2.3	7/11/51	Valley Pav. & Const. Co.	Grade & B.S.T. on I.S.M. & I.B.M.	174,252	19,700	*193,952
0-14VC58	San Luis Obispo	125	B	Across Salinas River	---	6/18/48	O. R. Ochs & Son	Redeck Steel Truss Br.	15,106	3,017	18,123
51-5VC7	San Luis Obispo	125	D	Bet. Rte. 33 & Kern Co. Line	3.7	10/ 3/50	Granite Const. Co.	Grade & P.M.S.	125,808	17,500	*143,308
52-5VC2-P	SLO, Mon., S.B.	Var	Var	See Santa Barbara County	---	---	---	---	---	---	---
51-5DC2-P	San Luis Obispo	FAS 676	---	Bet. Creston-Highland Rd. & 0.9 Mi. E. of Rte. 137	4.3	3/ 7/51	Fred McKinley	Grade & R.C. Br.	127,573	19,000	*146,573
52-5DC1	San Luis Obispo	FAS 676	---	On Calif Canyon-Huer Huero Rd., Bet. 3.2 Mi. W. of Huer Huero-La Panza Rd. & Crestline-Highland Rd.	3.0	11/13/51	Louis Lisotli & Son	Grade & Drainage	63,001	12,000	*105,000

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost.	Const. engr.	Total
5DC3	San Luis Obispo	FAS 678		Bet. Rte. 56 & 0.5 Mi. W. of Los Osos Cr.	3.1	3/11/48	Madonna Const. Co.	Grade & I.B.	\$58,363	\$8,820	\$67,183
5DC9	San Luis Obispo	FAS 679		On Avila Rd. Bet. Ontario Hot Springs & Avila	2.5	11/14/49	Granite Const. Co.	Grade & P.M.S. on I.B.M.	116,958	17,042	134,040
5DC2	San Luis Obispo	FAS 683		On Oso Flaco-Nipomo Rd. Bet. S.P.R.R. & 3.2 Mi. E'ly	3.2	4/11/47	A. Madonna	B.S.T.	63,407	6,071	69,478
5DC7	San Luis Obispo	FAS 1085		Bet. Rte. 2 & E. of Estrella	4.2	4/20/49	Eaton & Smith	Grade	64,005	6,979	70,984
5DC1	San Luis Obispo	FAS 1086		Bet. State Rte. 137 & Rinconada-Las Pilitas Rd.	6.0	3/28/47	Nathan A. Moore	Grade & I.B.M.	50,408	3,933	54,341
5DC4	San Luis Obispo	FAS 1086		Bet. Rte. 137 & Rinconada-Las Pilitas Rd.	6.1	6/ 7/48	Ned H. Mulleneaux	B.S.T. & Pen. Tr.	15,802	1,464	17,266
				Various Locations				Minor Contracts & D.L. Projects	60,597		*60,597
4T44	San Mateo	2	A	At Hillcrest Blvd.		10/22/46	Day Labor	Signals	6,339	500	6,839
4TMC6	San Mateo	2	A, Burl	On El Camino Real, Bet. Rosedale Ave. & Primrose Rd.		8/ 7/47	Severin Ele. Co.	Signals	39,617		39,617
4TC52	San Mateo	2	A	At Junipero Serra Blvd. & Santa Ynez Ave.		4/29/48	Jensen & Pitts	Signals & Chnlz.	37,965	6,766	44,731
0-4TMC12-P	San Mateo	2	Burl, SM	Bet. Peninsula Ave. & Hillside Blvd.		9/13/48	Geo. Pollock Co.	Signals	54,924		54,924
51-4TC31-P	San Mateo	2	DIC	At San Jose Ave. & at Market St.		4/11/51	R. Flatland	Signals & Chnlz.	61,139	6,600	*67,739
51-4TC29-P	San Mateo	2	MIP	Bet. Valparaiso Ave. & Ravenswood Ave.		1/13/51	L. H. Leonardi Ele. Const. Co.	Signals	24,436	1,160	25,596
1-4TTC11-P	San Mateo	2	RdwC	Bet. Whipple Ave. & Woodside Rd.		1/10/50	L. H. Leonardi Ele. Const. Co.	Signals & Lights	33,057	5,000	*38,057
51-4TC36	San Mateo	2	SBr	Bet. Angus Ave. & Sylvan Ave.		6/ 4/51	Leslie S. Mayne	Remove Trees	4,406	500	*4,906
51-4TC20	San Mateo	55, 56	A, E, DIC	At Skyline Blvd. & Junipero Serra Blvd.		10/31/50	Eaton & Smith	Signals, Lights & Chnlz.	103,252	15,852	119,104
4TC55	San Mateo	56	A	At Whitehouse Cr. & Gazos Cr.	0.2	5/13/48	Gordon L. Capps	Grade, B.S.T. & 2 Timber Brs.	44,608	9,601	54,209
4WC30	S.M. SCR	56	A, C	See Santa Cruz County							
0-4BTC1	S.M. SCR	56	A, C	See Santa Cruz County							
1-4TC87	San Mateo	56	A	At Cypress Cr. 0.6 Mi. N. Santa Cruz Co. line	0.3	6/ 7/49	Granite Const. Co.	Grade & R.M.S.	31,259	5,115	36,374

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost.	Const. engr.	Total
0-4TC81	San Mateo	56	C, D	Bet. Half Moon Bay & Montara Cr.	5.0	4/14/49	A. Teichert & Son, Inc.	Grade & P.M.S.	\$397,517	\$54,159	\$451,676
1-4TC99	San Mateo	56	C	Bet. Frenchman's Cr. & 1 Mi. N'y.	1.0	1/30/50	Eugene G. Alless	Grade & P.M.S. on I.B.M.	83,509	16,434	99,943
51-4TC4	San Mateo	56	C	Bet. 1 Mi. S. & 0.5 Mi. N. of Lobitos	1.3	6/2/50	Westbrook & Pope	Grade & P.M.S. on I.B.M.	206,786	36,000	*242,786
52-4TC3	San Mateo	56	C	Bet. 0.2 Mi. N. of Lobitos & 0.3 Mi. N. of Canada Verde Cr.	3.4	5/4/51	S.A.E. Co.	Grade & P.M.S.	392,557	47,000	*439,557
1-4TC106	San Mateo	56	DIC	At Westlake Subdivision	—	6/5/50	Minton & Kubon	Metal Liner Plate Culv.	11,969	1,639	13,608
4TC36	San Mateo	68	A	At Geneva Ave. & near Visitation Ave.	0.6	5/16/47	Chas. L. Harney, Inc.	Signals & Chnlz.	78,987	8,964	87,951
51-4TC24	San Mateo	68	A, SSF	Bet. S.C.L. of San Francisco & N.C.L. of South San Francisco	3.2	12/20/50	Chas. L. Harney, Inc.	Widen & P.M.S.	335,093	50,000	*385,093
4TC32	San Mateo	68	B	At San Bruno Ave.	—	3/27/46	Day Labor	Signals	4,244	—	4,244
4TC35	San Mateo	68	B	At Millbrae Ave.	—	6/26/46	Day Labor	Signals	4,714	—	4,714
4TC55	San Mateo	68	B	At Main Entrance to S.F. Municipal Airport	—	1/30/47	Day Labor	Signals	19,391	947	20,338
4TC36	San Mateo	68	C	At Holly St.	—	6/21/46	Day Labor	Signals	5,545	—	5,545
51-4TC10-P	San Mateo	68	C	At E. Hillsdale Blvd.	—	8/21/50	L. C. Smith	Signals, Lights & Chnlz.	17,837	2,650	20,487
4TC88	San Mateo	68	D	At Willow Road	—	1/19/48	Day Labor	Signals & Chnlz.	10,240	667	10,907
14TC19	San Mateo	68	F, Burl	On Bayshore Freeway, Bet. S.S.F. & Burlingame	—	2/28/47	Carriaco & Gautier	Substruct. for 4 S.H. OC's.	397,057	32,524	429,581
14TC24-F	San Mateo	68	F, Burl	Bet. S.S.F. & Burlingame	—	8/7/47	Carriaco & Gautier	Superstructs. for 4 OC's.	953,375	54,715	1,008,090
4TC38	San Mateo	68	Bmt	At Ralston Ave.	—	8/13/46	Day Labor	Signals	6,534	413	6,947
4TC24	San Mateo	68	Burl, SM	Bet. Broadway in Burlingame & State St. in San Mateo	2.2	6/22/46	Guy F. Atkinson Co.	Grade & P.C.C. on C.R.B.	672,385	72,254	744,639
4TC46	San Mateo	68	Burl, SM	Bet. Broadway in Burlingame & Peninsular Ave. in San Mateo	2.0	2/13/48	Huetting & Schromm	Landscape	8,517	2,348	10,865
4TC30	San Mateo	68	SM	At Third Ave.	—	12/31/45	Day Labor	Revise Signals	6,519	—	6,519
14TC9	San Mateo	68	SM	Bayshore Freeway at Peninsular Ave.	—	1/22/46	Macco Const. Co.	Steel Overcrossing	258,917	22,410	281,327
0-4TCM1-P	San Mateo	68	SM	Bet. Peninsular Ave. & Poplar Ave.	0.4	8/24/48	L. C. Smith	Grade & B.S.T.	15,435	2,756	*18,191
4TC26	San Mateo	68	SSF, F	Bet. S.P.R.R. & 0.5 Mi. S'y.	0.5	6/25/46	Piombo Bros. & Co.	Grade & Sand Drains	201,558	24,097	226,255
4TC30	San Mateo	68	Burl	Bet. Colma Cr. in S.S.F. & Broadway in Burlingame	5.1	10/9/46	Macco Corp. & Morrison-Knudson Co., Inc.	Grade & A.C. on C.R.B.	2,847,799	178,436	3,026,235

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
14TC20-F	San Mateo	68	SSF	In South San Francisco	---	4/11/47	Harry J. Oser & Peter Sorenson	2 R.C. Bns., 1 R.C. UC. & R.C. Substructs. for 2 OH's.	\$470,763	\$40,617	\$51,380
14TC22-F	San Mateo	68	SSF	At Main Line & Belt Line R.R. in S.S.F.	---	6/27/47	J.H. Pomeroy & Co., Inc.	2 OH. Substructs.	644,086	23,798	667,884
4TC42-F	San Mateo	68	SSF	Bet. N.C.L. & S. of Colma Cr.	2.1	8/21/47	Guy F. Atkinson Co.	P.C.C., A.C. & P.M.S.	1,049,428	112,739	1,162,167
4TC47-F	San Mateo	68	SSF, F, Burl	Bet. S.S.F. & Burlingame	---	9/10/47	Day Labor	Signals.	21,165	1,143	22,308
4TC48-F	San Mateo	68	SSF, F, Burl	Bet. S.S.F. UP. & Broadway in Burlingame	---	2/24/48	Day Labor	Restore Grade	7,133	---	7,133
4TC53	San Mateo	68	SSF, F, Burl	Bet. Colma Cr. & Broadway in Burlingame	4.9	4/29/48	Day Labor	Signs & Stripe	19,785	---	19,785
1-4TC96	San Mateo	68	SSF, F, Burl	Bet. Colma Cr. in S.S.F. & Broadway in Burlingame	4.9	5/ 5/48	Frank W. Smith	Armor Coat	17,491	3,311	20,802
4WL6	San Mateo	105	A	Bet. Grand Ave. & Broadway	5.5	11/ 1/49	Leonard Coates Nurseries, Inc.	Roadside Planting	36,849	8,886	45,735
0-4TC65	San Mateo	105	A	At Pilarcos Br. No. 35-15	---	2/21/47	Day Labor	Repair Br. with P.C.C.	4,895	300	*5,195
0-4TC65-P	S.M. Ala.	Var	Var	Bet. 3 Mi. E. & Half Moon Bay	2.7	7/28/48	L. C. Smith	P.M.S.	87,812	12,783	100,595
4DC7	San Mateo	FAS 1048	---	See Alameda County	---	---	---	---	---	---	---
1-4DC14	San Mateo	FAS 1048	---	Bet. 2.5 Mi. N. of Woodside & Ralston Ave.	4.7	6/30/47	Edward Keeble	Grade & Armor Ch.	248,414	18,155	266,569
4DC2	San Mateo	FAS 1052	---	Bet. 1.7 Mi. N. of Portola & Mayfield Ave.	2.6	5/ 5/50	Eugene G. Alves	Grade, A.C. on C.R.B. & R.C. Br.	142,499	20,000	*162,499
---	San Mateo	---	---	On Whipple Rd., Bet. Canada Rd. & Alameda de Las Pulgas	2.9	8/ 8/46	Piombo Bros. & Co.	Grade	158,435	1,587	160,022
---	San Mateo	---	---	Various Locations	---	---	---	Minor Contracts & D.L. Projects	91,429	---	*91,429
5V10	Santa Barbara	2	C, M, L	Bet. Zaca & Santa Maria (portions)	9.8	4/13/46	Day Labor	Stabilize & Raise Shldrs.	16,297	141	16,438
5VC13	S.B., SLO	2	C, F	Bet. Zaca & Wignmore & Bet. 1.5 Mi. S. of Nipomo & Delessignes Cr.	3.9	5/ 7/47	Brown & Doko	P.M.S.	118,797	5,582	124,379
14VC26-FP	Santa Barbara	2	D	Across Nojoqui Cr. & Santa Ynez Riv.	---	10/ 8/47	C. B. Tuttle Co.	2 Std. Bns.	516,334	25,942	542,276
0-5VC18-F	Santa Barbara	2	D	Bet. Santa Ynez Riv. & Jonata Park	3.6	4/ 9/48	Dimit & Taylor & T. M. Page	Grade & P.M.S. on C.R.B.	532,023	86,421	618,444
5V44	Santa Barbara	2	D	Bet. Nojoqui Riv. & Santa Ynez Riv.	0.4	5/24/49	Day Labor	Guard Rail	4,767	---	*4,767

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
1-5VC31	S.B., SLO	2	D, E, SLO	Bet. Santa Ynez Riv. & Jonata Park & Bet. Miles Sta. & Marsh St.	9.9	8/31/49	Madonna Const. Co.	Seal Coat.	\$23,877	\$1,392	\$25,269
1-5VC33	Santa Barbara	2	D	In Buellton	0.2	11/10/49	Valley Pav. & Const. Co., Inc.	Grade & P.M.S. on I.R.M.	9,387	2,449	*11,836
1-5VC36	Santa Barbara	2	E, D	Bet. 0.5 Mi. N. of Las Cruces & 1 Mi. N. of Summit	3.1	5/11/50	Granite Const. Co.	Grade & P.M.S.	645,563	81,000	*726,563
5V8	Santa Barbara	2	F	Bet. El Capitan Cr. & Alcatraz	0.6	4/6/46	Day Labor	P.M.S.	8,998	61	9,059
0-5VC25	Santa Barbara	2	F	Bet. Arroyo Quemado & Arroyo Hondo	2.6	9/27/48	Clyde W. Wood, Inc.	Grade, P.M.S. & Culvs.	668,366	75,000	*743,366
51-5VC5	Santa Barbara	2, 56	F, L, A, B,	Various Locations	8.9	8/30/50	Valley Pav. & Const. Co.	Seal Coat.	18,896	1,845	20,741
5VC9	Santa Barbara	2	G	Bet. 0.25 Mi. E. of Las Varas Cr. & 0.25 Mi. E. of El Capitan Cr.	2.9	10/28/46	N. M. Ball Sons	Grade & P.M.S.	400,589	35,474	436,063
1-5VC32-F	S.B., Ven	2	H, G	See Ventura County							
5VC11	Santa Barbara	2	J	Bet. Sheffield Dr. & San Ysidro Rd.	1.3	4/1/47	N. M. Ball Sons	Grade & P.M.S.	356,842	47,674	404,516
0-5VC24	Santa Barbara	2	J	Bet. Sheffield Dr. & San Ysidro Rd.	1.1	9/15/48	Baker & Pollock	Grade, P.M.S. & 4 R.C. Brs.	136,816	19,500	*156,316
52-5VC9	Santa Barbara	2	J	At Inrs. of Coast Hwy. with San Ysidro Rd. & Olive Mill Rd. in Montecito		11/29/51	Westates Elec. Const. Co.	Signals, Lights & Chnlz.	37,060	4,000	*41,060
1-5VC28	Santa Barbara	2	L, A	Bet. Orcutt Wye & Santa Maria	2.0	6/30/49	Madonna Const. Co.	Grade & P.M.S.	205,006	24,858	229,864
51-5VC1	Santa Barbara	2	L, N	At Orcutt Wye		8/18/50	Westates Elec. Const. Co.	Lights.	4,182	449	4,631
5VC8	Santa Barbara	2	P, Q	At Hollister Wye, Bet. Santa Barbara & Goleta		6/27/46	Jesse S. Smith	Grade & P.M.S.	142,320	23,396	165,716
5VC10	Santa Barbara	2	P	At Hollister Wye, Bet. Santa Barbara & Goleta		12/2/46	L. H. Leonard Elec. Const. Co.	Signals.	19,312	922	20,234
5VC5	Santa Barbara	2	Q, G	Bet. Fairview Ave. & Tecolote Cr.	4.7	10/3/45	Dinmitt & Taylor	Grade & P.M.S.	503,927	60,855	564,782
5VC6	Santa Barbara	2	Q	Bet. 0.25 Mi. W. of Rte. 80 & Fairview Ave.	3.7	1/7/46	Dinmitt & Taylor	Grade, P.M.S. & 2 R.C. Brs.	524,215	49,992	574,207
5VC21	Santa Barbara	2	Q, G	Bet. Hollister Wye & Tecolote Cr.	8.4	6/7/48	Baker & Pollock	Resurf. with P.M.S.	47,041	3,249	50,290
14VC27	Santa Barbara	2	SB	At Salpiguades St.		3/6/47	Macco Corp.	Overhead Substruct.	229,644	20,249	249,893
5VC12-F	Santa Barbara	2	SB	Bet. 0.2 Mi. E. of Park Pl. & Rancheria St.	2.2	5/16/47	N. M. Ball Sons	Grade, P.C.C., P.M.S., & Conc. Br.	889,688	83,242	972,930
14VC34-F	Santa Barbara	2	SB	S.P.R.R. at Salpiguades St.		8/21/47	Carl N. Swenson Co., Inc.	Std. Overhead.	520,485	22,962	543,447
51-5VC2	Santa Barbara	2	SB	Bet. Garden St. & Rancheria St.	0.7	4/29/50	Santa Barbara Crane Serv.	Remove & Replant Trees	6,237	1,600	7,837

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
1-5VC3	Santa Barbara	2	SB	At Rancheria & Carillo Sts. and at Mitchell- torena & Mission Sts.	2.3	6/ 9/50	Westates Elec. Const. Co.	Signals & Lights.	\$30,614	\$1,285	\$31,899
51-5VC6	Santa Barbara	2	SB	Bet. Bath St. & Junipero St.	0.5	9/14/50	N. M. Ball Sons	Grade & P.M.S.	105,224	16,700	*121,924
52-5VC7	Santa Barbara	2	SB	Bet. Montecito Sep. & Park Place	2.3	9/ 4/51	Baker & Pollock	Grade & P.M.S. on U.R.B.	31,890	6,100	*37,990
0-5VC20	Santa Barbara	56	A	Bet. Las Cruces & San Julian Cr.	6.5	5/25/48	N. M. Ball Sons	Grade & B.S.T.	146,642	17,447	182,089
51-5VC9-F	Santa Barbara	56	A, B	Bet. San Julian Ranch & 1.8 Mi. N. of Yitas Cr.	3.2	1/22/51	Valley Paving & Const. Co.	Grade & P.M.S.	251,834	30,000	*281,834
1-5VC27-P	Santa Barbara	56	B	Bet. Jalama Rd. & Rte. 149	4.3	4/20/49	Rand Const. Co., Inc.	Grade & P.M.S.	297,365	44,004	*341,369
5DVC1-P	Santa Barbara	56	E	Bet. Black Rd. & Point Sal Rd.	5.5	3/16/48	Madonna Const. Co.	Grade, B.S.T. & Slt. OH	209,371	48,277	257,648
53-5VC1	Santa Barbara	57	B	Bet. 1.7 Mi. E. of Buckhorn Cr. & 0.5 Mi. E. of Clear Cr.	0.4	4/ 1/52	Hernreck & Easter	Grade & Guard Rail	31,593	5,200	*36,793
51-5VC3	Santa Barbara	57	D	Bet. 4 Mi. E. Cuyama Maint. Sta. & 3 Mi. W. San Luis Obispo Co. Line	3.0	6/ 8/50	Rand Const. Co., Inc.	R.M.S.	29,446	5,900	*35,346
51-5VC4-Y	Santa Barbara	80	B	Bet. Tequepis Canyon & 1.5 Mi. E. of Santa Ynez Riv. Br.	3.3	8/ 4/50	Kirst & Sons	Grade & P.M.S. on U.R.B.	358,057	56,500	*414,557
51-5VC8-Y	Santa Barbara	80	B	Bet. Hot Springs Canyon & Tequepis Canyon	4.0	9/27/50	J. A. Payton	Grade & P.M.S.	540,062	77,500	*617,562
0-5VC30-P	Santa Barbara	148	SMra	Bet. Railroad Ave. & W.C.L. of Santa Maria	0.5	6/22/49	Madonna Const. Co.	Grade & P.M.S.	58,026	5,197	63,223
52-5VC8	Santa Barbara	149	A	At W.C.L. of Lompoc, at Miguelito Channel	2.6	11/15/51	Laredon Const. Co.	Grade, P.M.S. & R.C. Culv.	10,911	3,600	*14,511
5X16	Santa Barbara	149	D	Bet. Mi. 0.00 & Mi. 2.60	2.3	3/20/47	Day Labor	Resurface	9,838	239	10,077
5DXC1	Santa Barbara	149	D	Bet. 2.6 Mi. E. of Buellton & Grand Ave.	2.3	4/29/47	Frank T. Hickey, Inc.	Grade & P.M.S.	119,741	18,538	138,279
52-5VC2-P	S.B., SLO, Mon.	Var	Var	At Salsipuedes St. & Bet. Bath St. & Junipero St. in Santa Barbara; Bet. Cayucos & 0.6 Mi. N.; Bet. Rte. 33 & Kern Co. Line; & Bet. Spence UP. & 2 Mi. S. of Salinas	9.7	7/31/51	Granite Const. Co.	Seal Coat.	34,824	5,500	*40,324
4TCS8-P	Santa Clara	2	A, MVw	Various Locations	1.5	6/10/48	Minor Contracts & D.L. Projects	Minor Contracts & D.L. Projects	65,973	---	*65,973
4T131	Santa Clara	2	A	Bet. San Antonio Ave. & Saratoga Rd. Bet. Palo Alto & Sunnyvale	5.8	3/10/50	A. J. Raich Pav. Co. Day Labor	Grade, P.M.S. & Signals Subseal	235,143	23,637	258,780
									13,952	---	*13,952

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost.	Const. engr.	Total
51-4TC8	Santa Clara	2	A, MVw	Bet. Palo Alto & Sunnyvale	5.9	7/28/50	F. B. Marks, Jr.	Widen & P.M.S.	\$373,571	\$59,600	*\$433,171
4759	Santa Clara	2	B	0.5 Mi. N. of Coyote		3/31/47	Day Labor	Truck Scales	9,961		9,961
1-4TC74	Santa Clara	2	B	Bet. 2nd Rd. & Morgan Hill	6	4/1/49	McGillivray Const. Co.	Resurf. with P.M.S.	106,809	7,398	114,207
51-4TC1	Santa Clara	2	B	Bet. 3.3 Mi. S. of San Jose & Madrone	5.8	4/1/50	Leo F. Piazza	P.M.S.	106,679	5,388	112,067
52-4TC2	Santa Clara	2	B	Bet. S.C.L. of San Jose & Tully Rd.	1.5	8/30/51	A. J. Raisert Pav. Co.	Widen & P.M.S. on C.T.B.	102,967	16,500	*119,467
1-4TC72	Santa Clara	2	C	Across Carradero Cr., 1.8 Mi. S. of Gilroy		7/12/49	Dan Caputo	R.C. Bridge	85,218	7,667	92,885
1-4TC97-F	Santa Clara	2	C	Bet. 2.6 Mi. S. of Gilroy & 0.5 Mi. S. of Sargent OH.	3.1	12/ 7/49	Fredrickson & Watson Const. Co.	Grade, P.M.S., B.S.T. & Sid. OH.	621,982	95,500	*717,482
52-4TC10	Santa Clara	2	C	Bet. Llagas Cr. & Gilroy	5.6	8/14/51	Fredrickson & Watson Const. Co.	P.M.S. & Shldr.	159,858	17,000	*176,858
14TC2	Santa Clara	2	E	See Santa Clara Rte. 68-C							
14TC3	Santa Clara	2	E	See Santa Clara Rte. 68-C							
4797-Y	Santa Clara	2	Gil	In Gilroy		3/ 4/48	Day Labor	Signals	8,537	4,700	13,237
1-4TC102-F	Santa Clara	2	Gil, C	Bet. Gilroy & 2.0 Mi. S.	2.6	5/ 4/50	Fredrickson & Watson Const. Co.	Grade & P.M.S.	227,999	32,500	*260,499
4758	Santa Clara	2	MgH	Through Morgan Hill		3/20/47	Day Labor	Resurface	8,964	323	9,287
1-4TTCC9	Santa Clara	2	MgH	At Monterey St. & 2d St.	1.0	7/22/49	Howard Elec. Co.	Signals	9,794	1,580	11,374
4TC20-F	Santa Clara	2	SJs, E	See Santa Clara Rte. 68-C							
0-4TTCC6-P	Santa Clara	2	SCI	At Ballony St.		1/ 7/49	L. H. Leonardi Elec. Const. Co.	Signals & Lights	11,988	853	12,841
0-4TTCC8-P	Santa Clara	2	SCI	Intra. Clay St. with LaFayette St. & Grant with Franklin		6/15/49	Severin Elec. Co.	Signals & Lights	15,980	775	16,755
4757	Santa Clara	5, 68	A, B	At Intra. of Oakland Rd. & Bayshore Hwy.		3/ 4/47	Day Labor	Signals	8,555	517	9,072
4TC37	Santa Clara	5	A	Bet. Alameda Co. Line & Milpitas	1.0	5/16/47	A. S. Jones	A.C. on C.R.B.	45,327	7,028	52,355
4TC28	Santa Clara	5	B, SJs	At Bascom Ave. & Park Ave.	1.3	7/10/46	Union Pav. Co.	Grade & A.C. on C.T.B.	181,888	36,214	218,102
4747	Santa Clara	5	B	At Bascom Ave. & Race St.		11/21/46	Day Labor	Signals	15,692	915	16,607
51-4TC3	Santa Clara	5	C	Bet. 3.7 Mi. N. of Santa Cruz Co. Line & 1.1 Mi. S. of Rte. 42	1.8	5/18/50	Guy F. Atkinson Co.	Grade & P.M.S.	1,337,380	200,000	*1,537,380
51-4TC34-P	Santa Clara	5, 42	LGs	At Main St. & Santa Cruz Ave.		4/20/51	Howard Elec. Co.	Signals	10,286	1,600	*11,886
4TC36	Santa Clara	22, 32	A, B	At Don Pacheco Wye		9/21/50	Day Labor	Lights & Chnlz.	5,891	600	*6,491

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
4T113	Santa Clara	32	A	At Furlong Cr.		9/8/48	Day Labor	Detour	\$6,359		\$6,359
0-14TC54	Santa Clara	32	A	Across Furlong Cr.		9/29/48	Dan Caputo	R.C. Bridge	6,709	\$1,376	8,085
4WC28	Santa Clara	32	C	About 1.25 Mi. W. of Merced Co. Line	0.1	4/29/47	Granite Const. Co.	Grade & B.S.T.	11,532	1,818	13,350
1-4TC94-F	Santa Clara	32	C	Bet. Cape Horn & Merced Co. Line	3.3	10/28/49	Eaton & Smith	Grade & P.M.S. on C.T.B.	886,402	111,000	*997,402
1-4TC93	Santa Clara	42	A	Bet. 0.3 Mi. S. & 1 Mi. S. of Saratoga Ave. in Saratoga	0.7	9/29/49	Dan Caputo & Ed Keeble	Grade & P.M.S.	70,044	20,511	90,555
51-4TC16-P	Santa Clara	68	A, B, SJs, C	Bet. Palo Alto & 3 Mi. S. of San Jose		10/10/50	L. H. Leonardi Ele. Const. Co.	Lights	10,080	1,698	11,778
4T62	Santa Clara	68	B, SJs	At McKee Rd.		4/17/47	Day Labor	Signals & Lights	7,483	339	7,822
4T96	Santa Clara	68	B	At Agnew Rd.		3/3/48	Day Labor	Signals & Lights	9,331	646	9,977
0-4TC62	Santa Clara	68	B, SJs	Bet. Gish Rd. & Rte. 5		6/18/48	Chas. L. Harney, Inc.	Resurf. with P.C.C.	69,516	6,123	75,639
1-4TTC13-P	Santa Clara	68	B, SJs	At N. 1st St.	0.5	3/29/50	Dan Caputo	Signals & Lights	28,805	3,560	32,365
51-4TC11	Santa Clara	68, 114	B, A	At Mathilda Ave.		4/14/50	L. C. Smith Co.	Signals, Lights & Chnlz.	19,007	2,727	21,734
51-4TC22	Santa Clara	68	B	At 4th St. Extension		11/20/50	Edward Keeble	Signals & Lights	19,252	3,581	22,833
14TC2	Santa Clara	68	C	At Ford Rd. About 6 Mi. S. of San Jose		12/17/45	Earl W. Heple	Steel Undercrossing	59,621	10,837	70,458
14TC3	Santa Clara	68	C	Across Coyote Cr. & at Coyote Rd., about 6 Mi. S. of San Jose		12/4/45	Earl W. Heple	Steel Br. & UC	265,600	20,504	286,104
4TC20-F	Santa Clara	68	C	Bet. San Jose & 0.6 Mi. S. of Ford Rd.	8.1	12/20/45	N. M. Ball Sons	Grade & P.C.C.	1,281,376	104,853	1,386,229
14TC11-F	Santa Clara	68, 2	SJs	On Bayshore Freeway at Santa Clara St.	0.6	4/1/46	Fredrickson & Watson Const. Co.	P.C.C. & A.C. on C.R.B. & R.C. Sep. Struct. & Apps.	402,703	49,770	452,473
4T37	Santa Clara	68, 2	SJs	On Bayshore Freeway at Santa Clara St.		7/6/46	Day Labor	Maintain Detour	17,280		17,280
4TC32	Santa Clara	68, 2	SJs	At Santa Clara St. UP	0.5	2/6/47	Huetting & Schromm	Landscape	15,507	1,864	17,341
1-4TTC14	Santa Clara	114	A	Sunnyvale-Saratoga Rd. at Stevens Cr. Rd.		5/10/50	Kurze Elcl. Works	Signals & Lights	9,914	2,275	12,189
51-4TTC25	Santa Clara	114	Sun	At S.P.R.R. Crossing on Mathilda Ave.	0.1	1/11/51	Edward Keeble	Grade & P.M.S.	34,778	3,954	38,732
4T154	Santa Clara	115	A	At White Rd. & Alum Rock Ave.		12/30/48	Day Labor	Signals & Lights	5,993	340	*6,333
51-14TC25-F	SCI, SB4	119	A, F	See San Benito County							
4DC3	Santa Clara	FAS 992		On Leavensley & Ferguson Rds.	4.5	9/20/46	Granite Const. Co.	Grade & A.C.	162,073	20,198	182,211

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
4DC4	Santa Clara	FAS 1000		On Stevens Cr. Rd.	0.4	12/31/46	Dan Caputo & Edward Keeble	Grade, P.C.C. & Widen R.C. Br.	\$59,595	\$5,705	\$65,300
4DC8	Santa Clara	FAS 1000		On San Jose-Stevens Cr. Rd.	3.5	8/29/47	A. J. Raisch Pav. Co.	Grade, P.M.S. & Widen 2 R.C. Brs.	192,385	23,500	215,785
4DC13	Santa Clara	FAS 1012		On Story Rd. Bet. McLaughlin & White Rd.	2.5	2/10/49	Leo F. Piazza	Grade & P.M.S.	75,759	11,284	87,043
51-4DC5	Santa Clara	FAS 1016		Bet. Bayshore Hwy. & Gordon Ave.	3.1	6/22/51	Edward Keeble	Widen & P.M.S.	246,700	38,600	*285,300
4DC5	Santa Clara	FAS 1159		On N. Fourth St., Bet. Rte. 68 & San Jose.	1.2	3/11/47	Piazza & Huntley	Grade & A.C.	60,535	5,961	66,496
	Santa Clara			Various Locations				Minor Contracts & D.L. Projects	81,086	499	*81,585
51-4TMC19-P	Santa Cruz	5, 56	SCr	At Ocean & Water Sts.		12/20/50	Leo F. Piazza Pav. Co.	Signals & Chnlz.	11,292	2,553	*13,845
4T118	Santa Cruz	56	A, E, SCr	At Arana Gulch		6/15/49	Day Labor	Grade & Surface	15,000		15,000
51-4TC6	Santa Cruz	56	B	Bet. 2.3 Mi. & 1.5 Mi. S. of Davenport	0.7	6/12/50	Elmer J. Warner	Grade & P.M.S. on C.R.B.	103,172	14,000	*117,172
14WLC42	Santa Cruz	56	C	Across Waddell Cr.	0.3	9/16/46	Granite Const. Co.	R.C. Br. & Apps.	84,426	8,237	92,663
4WC30	SCR, S.M.	56	C, A	Bet. Waddell Cr. & Finney Cr.	1.4	6/13/47	Eaton & Smith	Grade & P.M.S.	444,314	51,325	495,639
0-4RTC1	SCR, S.M.	56	C, A	Bet. Waddell Cr. & Finney Cr.	1.3	1/21/49	Underground Const. Co.	Pipe Line	28,432	2,078	30,510
4TC45-F	Santa Cruz	56	D, E, SCr	Bet. Rob Roy Jet. & Morrissey Ave.	7.7	10/16/47	Earl W. Heple	Grade & 8 Stl. & Conc. Strcuts.	1,451,969	152,195	*1,605,164
0-4TC47-F	Santa Cruz	56	D, E, SCr	Bet. Rob Roy Jet. & Morrissey Ave.	7.7	4/ 1/48	N. M. Hall Sons	Grade & P.M.S. on C.R.B.	1,248,926	134,544	1,383,470
4T132	Santa Cruz	56	D, E, SCr	Bet. Rob Roy Jet. & Morrissey Ave.	7.7	9/17/48	Granite Const. Co.	Lights	23,071	2,327	25,398
51-4TC18	Santa Cruz	56	D, E, SCr	Bet. Rob Roy Jet. & Morrissey Ave.	7.6	3/14/50	Day Labor	Signs, Stripes & Markings	4,897		4,897
				Bet. Rob Roy Jet. & Morrissey Ave.		10/10/50	Huestig, Schromm, & Bennett	Roadside Planting	16,022	4,200	*20,222
4T128	Santa Cruz	56	E	S'y. of Aptos Ave., Bet. Sta. 3+50 & 29+00	0.5	3/ 7/50	Day Labor	Outer Highway	15,000		15,000
4T135	Santa Cruz	56	E, SCr	Bet. Rob Roy Jet. & Morrissey Ave.		8/10/50	Day Labor	Riprap & Drains	8,589		8,589
1-4TC100	Santa Cruz	56	SCr	In City of Santa Cruz		1/26/50	L. H. Leonardi Ele. Const. Co.	Signals	9,272	1,275	10,547
1-44TC78	SCR, Mon.	56	Wat, J	See Monterey County							
0-14TC38	SCR, SBl.	67	A, A	See San Benito County							

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
51-14TC7	Santa Cruz	116	A	Across San Lorenzo River	---	5/18/50	Huetting, Schromm, & Bennett	Repair 2 Brs. with Std. & R.C.	\$11,879	\$1,901	\$13,780
1-4TC89	Santa Cruz	116	B	At San Lorenzo River	---	7/ 7/49	Granite Const. Co.	Grade, B.S.T. & MP. Culv.	27,393	4,881	32,274
51-4TC30	Santa Cruz	116	B	About 0.5 Mi. N.W. of Boulder Cr.	0.1	2/ 5/51	Granite Const. Co.	Grade & Drainage	13,753	2,500	*16,253
14DC40	Santa Cruz	FAS	---	Across Soquel Cr. in Town of Soquel	---	7/28/48	Granite Const. Co.	R.C. Br. & P.M.S. on Apps.	80,281	978	81,259
14DC20	Santa Cruz	FAS	---	On Green Valley Rd.	0.5	6/27/47	Granite Const. Co.	Grade, P.M.S. & R.C. Br.	62,641	5,988	68,629
52-4DC7	Santa Cruz	FAS	---	On Watsonville-Santa Cruz Rd., Bet. Freedom & Watsonville	1.1	9/21/51	Granite Const. Co.	Grade, P.M.S. & Sl. Cts.	99,473	8,000	*107,473
4DC15-P	Santa Cruz	FAS 1147	---	Bet. 0.5 Mi. S. of San Andreas School & Maureas Beach	2.3	5/10/50	Edward Keeble	Grade, C.R.B. & Pen. Tr.	50,679	3,647	54,326
---	Santa Cruz	---	---	Various Locations	---	---	---	Minor Contracts & D.L. Projects	64,077	---	*64,077
0-2TC25	Shasta	3	A	Bet. Cottonwood & Anderson	5.0	4/19/48	Fredrickson & Watson Const. Co.	Grade, P.M.S. on C.T.B. & R.C. Br.	639,654	42,890	682,544
1-2TC30	Shasta	3	A	Bet. Anderson & Clear Cr.	5.8	4/15/49	Fredrickson & Watson Const. Co.	Grade, P.M.S. & R.C. Struts	790,965	97,916	888,881
0-2TC35-P	Shasta	3, 20, FAS 1074, 1076	---	---	---	---	---	---	---	---	---
1-2TC40	Shasta	3	A, Rdg, C, A, B A, Rdg	Bet. Redding & Fall Riv. Mills (portions) Bet. Anderson & Redding	22.7 9.8	6/ 6/49 5/24/50	Morgan Const. Co. Fredrickson & Watson Const. Co.	Seal Coat	29,167	3,760	32,927
2T41 0-2TC33	Shasta	3 3	C, D C, D, A, Dmr., MSha	Bet. O'Brien's Summit & Shasta Co. Line	1.3	4/17/47	Day Labor	Grade, P.M.S. on C.T.B. & Widen 3 Conc. & 1 Std. Br.	610,274	101,700	*711,974
14TC28-P	Shasta	3, 20	Rdg, C	Bet. Crespo's & Spring Hill	35.1	6/ 1/49	McGillivray Const. Co.	Resurf. with P.M.S.	9,440	209	9,649
51-2TC6	Shasta	3, 21, 29	Var	Bet. Rte. 3 in Redding & 1.5 Mi. E.	1.5	10/ 7/47	Fredrickson Bros.	Resurf. with P.M.S. & Sl. Ct.	453,945	32,727	486,672
---	Shasta	---	---	Various Locations	---	---	---	Grade, P.M.S. & Std. Br.	646,703	37,097	*683,800
---	Shasta	---	---	---	---	---	---	Seal Coat	64,657	6,332	70,989

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
2T43	Sha. Tri	20	A, B	See Trinity County	5.3	12/17/47	Fredrickson Bros.	Grade & P.M.S. on C.R.B.	\$617,044	\$52,927	\$669,971
2TC23-F	Shasta	20	A	Bet. Towerhouse & Schilling	4.6	8/29/46	Harnis Bros. & N. M. Ball Sons.	Grade & P.M.S.	521,291	48,275	569,566
2TC18-F	Shasta	20	B	Bet. Shasta & Schilling							
14WLC45	Shasta	20	C	Across Sacramento Riv. at Redding		2/26/47	James I. Barnes Const. Co.	Substruct. for Stl. Br.	285,713	16,918	302,631
51-2TC3	Shasta	20	C	Across Oak Run Cr. Overflow		5/17/50	J. P. Brennan	Culv. & Apps.	7,628	2,506	12,134
2T82	Shasta	20	E	Across Smith Ditch		10/11/50	Day Labor	Replace Timber Br.	6,999		6,999
2TC29	Sha, Plu, Tri	21, 20	B, B, A	See Plumas County							
2TLC2	Shasta	28	A	At Seaman's Gulch, About 1 Mi. W. of Ingot Cr.	0.8	11/20/45	A. A. Tieslau & Son	Grade, P.M.S. & R.C. Culv.	123,801	13,092	136,893
2TC16	Shasta	28	B	Bet. 4.5 Mi. E. of Ingot & Montgomery Cr.	9.7	4/22/46	W. C. Railing	P.M.S.	71,959	4,392	76,251
0-2TC27	Sha, Sis	28, 72	C, A	Two Locations	9.0	5/12/48	W. C. Railing	P.M.S. on C.T.B.	134,933	15,783	150,715
0-2TC36	Shasta	28	C	6 Mi. W. of Burney	1.0	6/28/49	W. B. Jones	Grade & R.M.S.	35,665	3,472	39,137
51-2TC9	Shasta	28	C	At Hatchet Cr. Line Change	1.6	10/4/50	Eaton & Smith	Grade & P.M.S.	356,002	37,200	*393,202
1-14TC73	Shasta	28	D	Across Burney Cr. in Burney		7/20/49	Metzger Co.	2 R.C. Brs. & R.C. Culv. & Apps.	96,884	11,184	108,068
2TC8	Sha, Las	28	E, A, B	Bet. Fall Riv. Mills & 8.3 Mi. E. of Bieber	30.2	5/8/45	M. J. Ruddy & Son	Repair with P.M. B.M., C.T.B. & Sl. Ct.	203,243	28,357	231,600
2DC3	Shasta	FAS 1072		Bet. Cottonwood & Anderson	10.8	6/8/46	Oilfields Trucking Co. & Phoenix Const. Co.	Grade & P.M.S.	235,822	20,148	255,970
1-14DC72	Shasta	FAS 1074		Across Sacramento Riv., 1.5 Mi. N. of Anderson		6/13/50	M. A. Jenkins & R. E. Hertel	Steel & R.C. Br.	283,224	1,414	*284,638
2DC8	Shasta	FAS 1076		Bet. Fall Riv. Mills & Dana	5.5	4/29/48	W. C. Railing	Grade, C.R.B. on I.B. & Sl. Ct.	183,052	21,254	204,306
	Shasta			Various Locations				Minor Contracts & D.L. Projects	49,962		*49,962
1-3TC87	Sie, Yub	25	A, A	See Yuba County							
51-3BC2	Sierra	25	A, B	Bet. 6.3 Mi. E. of N. Yuba Riv. Br. & 4.5 Mi. W. of Sierra City	1.9	6/30/51	J. Henry Harris	Grade & Pen. Tr.	212,591	14,547	*227,138

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
51-14B/C2	Sierra	25	B	Across Salmon Cr., 3.8 Mi. N. of Sierra City		6/21/51	Lefever & Bing	Repair R.C. Br.	\$24,525		*\$24,525
3DC9	Sierra	FAS 524		Bet. Sierraville & 5.6 Mi. N'y.	5.6	7/13/48	Nevada Constructors, Inc.	Grade & R.M.S.	110,516	\$16,666	127,182
	Sierra			Various Locations				Minor Contracts & D.L. Projects	2,333		2,333
2TC17	Siskiyou	3	A	At N. Entrance to Dunsuir		4/23/46	M. W. Brown	Correct Drainage	9,274	1,829	11,103
0-2TC23	Sis, Sha	3	A, Dmr, MSha	See Shasta County							
1-2TC32	Siskiyou	3	A	Bet. Spring Hill & Weed	4.4	4/15/49	Harms Bros. & F. Fredenburg	Grade & Sd. OH	381,003	32,844	413,847
51-2TC2-F	Siskiyou	3	A	Bet. Spring Hill & Weed	8.0	4/12/50	Rand Const. Co., Inc.	Grade & P.M.S.	504,576	87,100	*\$591,676
2TC15	Siskiyou	3	B	Bet. Weed & Yreka	20.4	4/ 1/46	Clements & Co. & Milo				
0-2TC28	Siskiyou	3	B	Bet. Gazelle & 5.5 Mi. N'y.	5.5	6/18/48	A. Browne Clements & Co.	Repair with I.B.M. & P.M.S. P.M.S. on C.T.B.	183,259 142,325	16,424 12,979	199,683 155,304
2T45	Siskiyou	3	C	Bet. Bailey Hill & State Line	1.6	5/12/47	Day Labor	P.M.S.	29,966	1,026	31,022
14TC22-F	Siskiyou	3	C	Bet. Camp Lowe & Bailey Hill		5/16/47	Ted F. Baun	Conc. Br. & Conc. UP	348,820	30,065	378,885
2TC22-F	Siskiyou	3	C	Bet. Camp Lowe & Bailey Hill	7.8	9/17/47	Fredrickson & Watson Const. Co.				
1-2TC31-F	Siskiyou	3	C	Bet. Camp Lowe & Bailey Hill	7.8	4/ 1/49	A. Tetchert & Son, Inc.	Grade P.M.S.	709,109 308,886	71,200 38,130	780,309 347,016
2TC14	Siskiyou	3	Yre, C	Bet. Yreka & Camp Lowe	13.3	3/25/46	Clements & Co.	Repair with C.R.B., P.M.S. & Sl. Ct.	178,838	12,707	191,545
51-2TC6	Sis, Sha, Plu	3, 21, 29	Var	See Shasta County							
2WL19	Siskiyou	46	A	Across Davis Mine Cut, Br. No. 2-60		4/28/44	Day Labor	R.C. Culv.	8,165	1,380	9,545
2WL20	Siskiyou	46	A	Across Mine Spillway, Br. No. 2-61		4/28/44	Day Labor	R.C. Box Culv.	6,800	1,193	7,993
2WL21	Siskiyou	46	A	Across Steep Cr., Br. No. 2-62		4/28/44	Day Labor	R.C. Box Culv.	12,237	1,184	13,421
2WL22	Siskiyou	46	A	Across Curley Jack Cr., Br. No. 2-59		4/28/44	Day Labor	R.C. Box Culv.	9,923	1,938	11,861
1-14TC59	Siskiyou	46	A	Across Dillon Cr.	0.3	4/ 1/49	G. M. Carr & Bati Rocca	Grade Surf., Sd. Br. & Apps.	168,336	21,631	189,967
1-14TC67	Siskiyou	46	A	Across Dillon Cr.		5/21/49	G. M. Carr & Bati Rocca	Conc. Br. & Apps.	134,748	14,914	149,662
2W10	Siskiyou	46	B	Bet. Happy Camp & Thompson Cr. (portions)	11.8	4/27/45	Day Labor	Grade Surf. & Drainage	59,990	975	60,965
2WC10	Siskiyou	46	B, C	Bet. Thompson Cr. & 4 Mi. E. of Seiad	11.9	7/15/47	W. C. Railing	R.M.S.	59,260	6,278	65,538
2T75	Siskiyou	46	B	Bet. Happy Camp & Cade Mtn. (portions)	4.2	5/ 2/49	Day Labor	Widen & Surf.	12,486		12,486
2T81	Siskiyou	46	B	Neat Happy Camp	9/13/50	9/13/50	Day Labor	Grade, Pen. Tr. & Sl. Ct.	6,759	171	*\$6,930
52-14TC2	Siskiyou	46	B	Across Thompson Cr.		6/15/51	E. H. Peterson & Son	R.C. Br. & Apps.	40,000	8,300	*\$48,300

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
2T78	Siskiyou	46	C	Across Scott Riv.	-----	6/29/49	Day Labor	Repair Bridge	\$12,791	-----	\$12,791
2W12	Siskiyou	46	D	Bet. Walker Br. & Rte. 3	19.6	12/28/45	Day Labor	Widen & Restore Surf.	79,922	\$4,295	84,217
0-2TC27	Sis. Sha.	72, 28	C, A	See Shasta County	-----	-----	-----	-----	-----	-----	-----
2WC9	Siskiyou	82	D	Bet. Fort Jones & 2.2 Mi. E. of Moffett Cr.	7.5	6/ 5/47	Sheldon Oil Co.	P.M.S. & Shldrs.	49,770	4,507	54,277
2DC5-P	Sis. Mod.	210, FAS, 753	A, B	See Modoc County	-----	-----	-----	-----	-----	-----	-----
2DC1	Siskiyou	FAS, 753-A	-----	Bet. Rte. 72, 3 Mi. N. of Dorris, & 4 Mi. W. of Hatfield	15.6	5/29/46	Utah Const. Co.	Grade, Gravel & Cement Base.	540,005	43,078	583,083
-----	Siskiyou	-----	-----	Various Locations	-----	-----	-----	Minor Contracts & D.L. Projects	54,596	-----	*54,596
COFC4	Sol. C.C.	7	A, F	See Contra Costa County	4.0	10/29/46	Day Labor	Surface Shldrs.	17,764	887	18,651
10TC96	Solano	7	B	Bet. Rockville Rd. & Co. Hospital	-----	-----	-----	-----	-----	-----	-----
0-10TC35-F	Solano	7	B, C	Bet. Ledgewood Cr. & 3.5 Mi. E. of Fairfield	4.7	8/ 4/48 9/27/48	Parish Bros. L. H. Leonard	Grade, P.C.C. & 2 P.C. Brs.	1,222,727	61,201	1,283,928
0-10TC39	Solano	7	B, C	Near Fairfield	-----	-----	Const. Co.	Signals & Lights	20,117	1,949	22,116
52-10TC6	Solano	7	B, C	Bet. Ledgewood Cr. & Alamo Cr.	8.1	7/28/51	Huetting-Schroemm & Bennett	Protective Screening	12,950	2,300	*15,250
10TC18	Solano	7, 90	C, Vac	Bet. Fairfield & 3.5 Mi. N. of Vacaville	4.8	5/13/47	Fredrickson Bros.	P.M.S.	44,697	2,879	47,576
10TC34	Solano	7	C	Bet. E. of Fairfield & E. of Alamo Cr.	4.3	6/24/48	Harnus Bros.	Grade, P.C.C. & R.C. Br.	824,915	60,902	885,817
51-10TC1	Solano	7	C, D	At the Nut Tree & at Alamo Cr.	0.7	3/ 9/51	Harnus Bros.	Frontage Roads, Grade & P.M.S.	31,245	3,600	*34,845
10TC9	Solano	7	D, I	Bet. Midway & 1.3 Mi. N. of Dixon	6.1	1/17/46	Fredrickson Bros.	Grade, P.C.C. & Conc. Brs.	1,078,243	55,355	1,133,598
1-10TC48	Sol. Yol.	7, 6	D, I, A, E, A	Bet. E. of Ulatis Cr. & W. of Yolo Causeway	-----	-----	-----	-----	-----	-----	-----
51-10TC4	Solano	7	D	Bet. Jet. of Co. Rd. to Vacaville & 2.5 Mi. N	2.4	5/12/49	Harnus Bros.	Widen, Crossovers, Curbs & Barriers	66,858	3,359	70,217
-----	-----	-----	-----	-----	-----	4/11/50	Fredrickson Bros.	Widen & P.M.S.	75,318	7,398	82,686
10TC13	Sol. Yol.	7	E, A	Across Putah Cr., about 6 Mi. N. of Dixon	-----	7/29/46	M. A. Jenkins	Repair Conc. Br.	9,469	1,896	11,365
51-14TC15	Sol. Yol.	7	E, A	Across Putah Cr.	-----	8/22/50	Ben C. Gerwick, Inc.	Repair Conc. Br.	10,890	1,353	12,243

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
COF-8 10TC27-F	Sol. C.C.	7 7, 74	F, A F, G, D	See Contra Costa County Bet. Vallejo Wye & 0.5 Mi. N. of Rte. 208	5.6	2/16/48	Parish Bros.	Grade, P.C.C., P.M.S. & Gr. Sep.	\$1,169,866	\$103,706	\$1,273,572
0-10TC50	Solano	7	F, G	Near Vallejo		6/14/49	Tri-Cities Inc.	Signals & Lights	49,453	1,608	51,061
51-10RTC2	Solano	7	G, C, D, I	Bet. Vallejo & Davis (Portions)	0.8	5/24/51	Fredrickson Bros.	Frontage Rd. & Chain Link Fence	80,943	9,200	*90,143
1-10TC36 1-10TC53 52-10TC8	Sol. Nap. Sol. Nap. Solano	7 7 7, 8	H H H, B, A	See Napa County See Napa County Bet. Cordelia U.P. & Ledgewood Cr.		9/14/51	Underground Ele. Const. Co.	Lights & Signs	23,232	2,200	*25,432
10RTC4 10TC73	Solano	7 7, 6	I I, A	At Milk Farm At the Milk Farm & at Freese Corner	0.3	6/28/48 3/23/49	Harns Bros. Day Labor	Grade, P.M.S. on U.R.B. Channelization	14,530 9,198	1,990 894	16,520 10,092
10TC21	Solano	7	Frd	Bet. Madison St. & Union Ave.		6/ 7/47	Ed. Pierce Ele. Co.	Signals	8,908	964	9,872
10TC8	Solano	7	Vac, D	Bet. Ulatis Cr. & Midway	6.0	12/ 5/45	Fredrickson Bros.	Grade, P.C.C. & Conc. Brs.	561,205	45,796	607,001
10W40	Solano	53	A, B	Bet. Susun & Rio Vista		8/ 7/46	Day Labor	Repair War Damage	60,162	2,899	63,061
14WLC47	Sol. Sac	53	C, A	Across Sacramento Riv. at Rio Vista		4/21/47	C. M. Allen	Repair Sld. Truss Br.	9,296	1,084	10,380
52-10TC2	Solano	74	A	At Nebraska St.		6/ 5/51	L. H. Leonardi Ele. Const. Co.	Signals & Lights	6,014	600	*6,614
10W42	Solano	74	C	Bet. Benicia Arsenal Grounds & Cordelia	8.7	8/19/46	Day Labor	Resurface	41,570	2,136	43,706
10TT9	Solano	74	Val	At 4th St. & Lemon St.		3/14/50	Day Labor	Signals & Lights	5,012		5,012
10W39 10W46 10WC14	Solano Solano Solano	90 90 90	A A A	Bet. Allendale & Putah Cr. (Portions) Bet. Allendale Jct. & Winters Bet. Rte. 7 & 0.5 Mi. N. of Sweeney Cr.	4.7 5.7	7/24/46 10/18/46 9/16/46	Day Labor Day Labor Fredrickson Bros.	Resurface Repair Shldrs. Grade, P.C.C. & 5 R.C. Brs.	15,983 4,989 541,131	791 270 42,540	16,774 5,259 583,691
14WLC54 14TC26	Solano Solano	99 99, 100	A A, A	Across Miner Slough At Cache Slough & Steamboat Slough Ferries		6/ 5/47 9/30/47 5/10/51	C. M. Allen C. M. Allen Day Labor	Widen Sld. Truss Br. Three Ferry Ramps Repair Ferry	4,857 7,337 6,330	155 1,160	5,012 8,497 6,330
10TS2 10T78	Solano Solano	99 101	A A	At Cache Slough Across S. Fk. of Lindsey Slough		4/ 6/50	Day Labor	Replace Br. with C.M.P. Culv.	6,871		*6,871

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
14WC5	Solano	208	A	Across Napa Riv. at W.C.L. of Vallejo		3/ 1/46	Healy Tibbitts Const. Co.	Repair Br. Fender	\$14,251	\$1,755	\$16,006
0-14TC48	Solano	208	A	Across Napa Riv.		6/23/48	H. F. Lauritzen	Repair Sd. Truss Br.	5,704	6,157	6,157
1-14TC83	Solano	208	A	At Napa Riv. Br. near Vallejo		12/ 2/49	Crabbe Etc.	Emergency Generator	7,116	609	7,725
51-14TC2	Solano	208	A	Across Napa Riv. at W.C.L. of Vallejo		4/ 1/50	Payne Const. Co.	Repair Sd. Truss Br.	19,108		*19,108
51-14TC3	Solano	208	B	Across White Slough, 0.5 Mi. E. of Napa Riv. Br.		4/ 1/50	Lew Jones Const. Co.	R.C. Bridge	80,100	4,766	64,866
10ANC12	Solano	Access	Val	On Waterfront Rd. Bet. Virginia St. & Santa Clara St.	0.3	2/ 4/46	C. M. Syar	Grade & A.C.	31,421		31,421
14DC8	Solano	FAS 1106 1108 1110									
10DC16	Solano	FAS 1107 1108		Across Pleasants Cr., Alamo Cr., & Tributary to Putah Cr.		4/ 4/47	G. M. Carr & Bati Rocca	5 R.C. Bridges	82,713	4,329	87,042
14DC44	Solano	FAS 1108		Bet. Vanden & Vacaville & Bet. Vacaville & Elmira	2.4	7/ 6/50	Fredrickson Bros.	Grade, P.M.S. on I.B.M. & U.R.B. & Seal Coat	74,512	1,253	75,765
				Across Alamo Cr.		10/ 6/48	Wm. E. Thomas Const. Co.	R.C. Structures	16,323	2,093	18,416
	Solano			Various Locations				Minor Contracts & D.L. Projects	53,228		*53,228
4TC63	Sonoma	1	A	Near Cloverdale		6/28/48	Stolte, Inc., & The Duncauson-Harrelson Co.	Truck Scales	24,917	1,085	26,002
1-4TC85	Sonoma	1	A	Bet. Cloverdale & Healdsburg	4.8	5/19/49	A. G. Raich Co.	Grade & P.M.S.	154,456	14,564	169,020
4TC29	Sonoma	1	A, B	Bet. Cloverdale & 2 Mi. N. of Santa Rosa	10.6	3/ 7/50	Day Labor	Subseal	44,778		*44,778
51-4TC5	Sonoma	1	A	Bet. Cloverdale & Healdsburg	4.9	6/ 8/50	J. R. Armstrong	Grade & P.M.S.	159,653	28,000	*187,653
4TC60	Sonoma	1	B	Bet. Healdsburg & Santa Rosa	1.7	3/31/47	Day Labor	Resurface	29,271	156	29,427
0-4TC56-F	Sonoma	1	B, E, SRo	Bet. 2 Mi. N. & 0.7 Mi. S. of Santa Rosa	4.3	5/20/48	Stolte, Inc., & The Duncauson-Harrelson Co.	Grade, P.C.C. & R.C. Brs.	1,398,402	109,900	1,478,302
51-4TC7	Sonoma	1, 51	B, Scn	Bet. Healdsburg & Santa Rosa & at Sonoma	6.4	7/ 6/50	A. G. Raich Co.	Grade & P.M.S. on B.S.T. & I.B.M.	154,464	21,500	*175,964
4TC21-F	Son, Mtn	1	C, A	Bet. 1 Mi. S. of Petaluma & Ignacio Wye	11.9	1/17/46	A. G. Raich Co. & Harms Bros.	Grade, P.C.C., A.C. & Conc. Struct.	1,643,187	156,847	1,800,034

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
4TC34	Sonoma	1	C	Bet. 3 Mi. N. & 1 Mi. S. of Petaluma.	4.0	4/23/47	A. G. Raisch Co.	Resurf. with A.C.	\$86,029	\$6,352	\$92,381
0-4TC69	Sonoma	1	E, SRo	Thru Santa Rosa		8/10/48	H. S. Tittle Co.	Signals & Lights	37,013	3,730	40,743
1-4TC91	Sonoma	1	E, SRo	Bet. Steele Lane & Baker Rd.	2.8	8/ 5/49	Stephen L. Vistica	Landscape	34,540	6,428	*40,968
4T122	Sonoma	1	E, SRo, B	Bet. 0.3 Mi. S. & 1.7 Mi. N. of Santa Rosa.		10/18/49	Day Labor	Revise Signals	24,467		24,467
51-4TC37	Sonoma	1	E, SRo	Bet. Steele Lane & Barham Ave.		6/28/51	Karl F. Stotling	Signals & Lights	14,616	3,500	*18,116
52-4TC2-P	Sonoma	1	Hlbg	At North St. & at Matheson St.		6/20/51	L. H. Leonardi Ele. Const. Co.	Signals	9,471	1,600	*11,071
4T46	Sonoma	1	SRo	At College Ave. & 5th St.		11/ 1/46	Day Labor	Purchase Signals	8,038	597	8,635
1-4TC92	Sonoma	8	A	Bet. Petaluma Cr. & Tolay Cr.	3.9	9/15/49	Piombo Const. Co.	Grade & P.M.S.	607,793	80,500	*688,293
4T140	Sonoma	8	A	Bet. Petaluma Cr. & Tolay Cr.	3.9	3/11/52	Day Labor	Horizontal Drains	27,321		27,321
4T125	Sonoma	8	B	15 Mi. E. of Marin-Sonoma Co. Line.		12/14/49	Day Labor	Retaining Wall	11,298	263	*11,561
51-14TC17	Sonoma	51	A	Bet. Santa Rosa & Kenwood		10/11/50	R. G. Clifford & C. O. Bodenhamer	Widen 3 Conc. Brs. & Apps.	80,372	9,991	90,363
0-4TC75	Sonoma	51	C	Across Purple Draw & Laguna De Santa Rosa	0.3	3/15/49	A. G. Raisch Co.	Widen Conc. Br. & Culv.	57,528	8,250	65,778
52-4TC25-P	Sonoma	51, 104; 1,104	Seb, C, C	At Intrs. Main St. with Santa Rosa Ave.-Bodega Ave. in Sebastopol & Redwood Hwy. with Gravenstein Hwy.		1/21/52	J. Henry Harris	Signals, Lights & Chnlz.	15,145	1,750	*16,895
4T112	Sonoma	56	C, D, E	Bet. Jenner & Gualala Riv.	2.4	9/10/48	Day Labor	Grade & Surf.	49,987	1,977	*51,974
51-4TC15	Sonoma	56	C, D, E	Bet. Jenner & Mendocino Co. Line.	1.0	10/11/50	Huntington Bros.	Grade & B.S.T. on I.R.M.	122,755	16,750	*139,505
4W30	Sonoma	56	E	At Various Locations		8/13/46	Day Labor	Improve Drainage	6,323		6,323
52-4TC8	Sonoma	56	E	Bet. Stewart's Point & Gualala	2.7	6/29/51	Huntington Bros.	Grade & B.S.T.	100,537	10,000	*110,537
52-4TC4	Sonoma	104	A	Across Sheephouse Cr.		6/ 4/51	Wheeler Const. Co.	R.C. Culv. & Apps.	24,958	3,000	*27,958
14TC33	Sonoma	208	A	Across Tolay Cr. about 14 Mi. W. of Vallejo		11/29/47	Evaus Const. Co.	Redeck Sil. Truss Bridge	8,612	1,603	10,215
51-14TC1	Sonoma	208	A	Across Tolay Cr.		8/21/50	Thomas Riegging Co.	Alter Sil. Truss Bridge	1,189	434	1,623
51-4TC19	Sonoma	208	A	Bet. Sears Point & Solano Co. Line.	2.0	10/11/50	A. G. Raisch Co.	Shldrs. & Sl. Ct.	19,445	3,000	*22,445
14DC2	Sonoma	FAS 786		Across Russian Riv. at Hacienda.		9/13/46	Kiss Crane Co.	Std. & Conc. Br.	123,197	2,268	125,465

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
14DC70-P	Sonoma	FAS 786		Across Hobson Cr. at Hacienda		4/20/50	G. M. Carr & Bati Rocca	R.C. Br. & P.C.C. on Apprs.	\$85,000	\$1,177	\$86,177
14DC37	Sonoma	FAS 788		Across Russian Riv. at Yintown		6/16/48	C. B. Tuttle Co.	SL & R.C. Br. & I.B. on Apprs.	373,631	27,914	401,545
51-4DC3-P	Sonoma	FAS 878		Bet. 1.8 & 3.6 Mi. NW. of Rte. 8	1.8	8/18/50	Harold Smith	Grade & SL Ct.	105,667	6,432	112,099
	Sonoma			Various Locations				Minor Contracts & D.L. Projects	105,044		*105,044
0-10TC31	Sta, Mer	4	A, B, A, C	See Merced County							
1-10TC34-F	Sta, Mer	4	A, Cer, B,	Bet. Turlock & Keyes	4.9	8/25/49	United Conc. Pipe Corp.	Grade, P.M.S. & R.C. Br.	476,509	55,631	532,140
51-10TC6	Sta, Mer	4	C, D, Lytn	See Merced County							
51-10TC11	Stanislaus	4	A, D	Bet. Turlock & Keyes							
51-10TC16-F	Sta, Mer	4	A, D	See Merced County							
52-10TC14	Sta, Mer	4	A, D	See Merced County							
10TC15	Sta, S.J.	4	B, A, Rip	Bet. Salida & 1 Mi. N. of Ripon	4.5	7/15/46	A. Teichert & Son, Inc.	Grade & P.C.C.	434,113	52,161	486,274
14TC21	Sta, S.J.	4	B, A	Across Stanislaus Riv.		4/25/47	Fredrickson & Watson Const. Co.	Steel Bridge	352,697	13,913	366,610
10TC24	Sta, S.J.	4	B, A, Rip	Bet. Salida & 1 Mi. N. of Ripon		10/20/47	Evans Const. Co.	Barrier Posts & Guard Rail	9,901	1,773	11,674
1-10TC46	Sta, S.J.	4	B, A, Rip, C	Bet. Salida & 1 Mi. N. of Ripon & Bet. Calaveras Riv. & Lodi	11.9	4/ 1/49	Henry C. Soto Corp.	Landscape	17,114	1,774	18,888
1-10TC44	Sta, Mer	4	D, A, Cer, B	See Merced County							
10TC22	Stanislaus	4	Cer	On Fourth St.		6/10/47	L. H. Leonardi Ele. Const. Co.	Signals	14,007	1,794	15,801
10TC6	Stanislaus	4	Tur	Bet. Olive St. & Marshall St.		5/12/48	Collins Ele. Co.	Signals	6,905	618	7,523
1-10TC63-P	Stanislaus	4	Tur	Bet. Geer Ave. & N.C.L.	0.2	6/14/50	United Conc. Pipe Corp.	Widen & P.M.S. on U.R.B.	17,826	1,161	18,987
51-10TC2	Stanislaus	13	A, Rybk, A, B	Bet. Jet. Rte. 109 & 1 Mi. E. of Oakdale	11.2	4/ 1/50	Munn & Perkins	Widen & P.M.S.	212,592	22,727	235,319
10TL1C1	Stanislaus	13	B	At Wildcat Cr.	0.4	6/27/47	Bisotti Const. Co.	Grade & M.P. Culv.	46,820	4,684	51,504
0-10TC32	Stanislaus	13	B	Bet. 1.3 Mi. E. of Oakdale & 1.8 Mi. W. of Tuo. Co. Line	9.6	4/28/48	M. J. Ruddy & Son	Grade & P.M.S. on U.R.B.	204,669	13,531	218,200
0-10TC29	Stanislaus	41	A, B	Bet. Newman & San Joaquin Co. Line	6.2	4/ 1/48	M. J. Ruddy & Son	Grade & P.M.S.	140,606	8,375	148,981

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
1-10TC55	Stanislaus	41	B, Pat	At Patterson	0.5	8/31/49	H. Sykes	Grade & P.M.S. on U.R.B.	\$29,172	\$6,359	\$35,531
0-10TMC7	Stanislaus	66	Okdl	Bet. D. St. & B St.	0.2	8/30/48	M. J. Ruddy & Son	P.M.S.	13,806		13,806
51-10TC17	Stanislaus	110	A, B	Bet. 10.5 Mi. & 5.0 Mi. W. of Modesto	3.5	3/27/51	M. J. Ruddy & Son	P.M.S.	122,560	12,000	*134,560
51-10TC13	Stanislaus	110	B	At Modesto Irrigation Dist. Lateral No. 4.	0.3	10/19/50	M. J. Ruddy & Son	Widen R.C. Br., Grade & P.M.S. on U.R.B.	24,608	5,069	29,677
10TC19	Sta, Mer	110, 4	C, D	See Merced County							
52-10DC3	Stanislaus	FAS 903		On McHenry Ave., Bet. State Hwy. Rte. 13 & San Joaquin Co. Line	1.7	8/27/51	M. J. Ruddy & Sons	P.M.S. on U.R.B.	34,512	2,000	*36,512
10DC14-P	Stanislaus	FAS 904		Bet. Oakdale & Waterford	9.5	7/ 3/50	United Conc. Pipe Corp.	Widen & B.S.T. & P.M.S. on U.R.B.	95,000	1,480	96,480
51-10DC4	Stanislaus	FAS 904		Bet. Rte. 66 & Valley Home	3.9	5/24/51	United Conc. Pipe Corp.	Widen & P.M.S.	68,606	3,000	*71,606
14DC17	Stanislaus	FAS 912		Across Tuolumne Riv., about 6 Mi. E. of Modesto		5/22/47	Erickson, Phillips & Weisberg	R.C. Bridge	145,656	1,332	146,988
10DC3	Stanislaus	FAS 912		Bet. Empire & Hughson	0.9	4/22/48	Louis Biasotti & Co.	Grade & P.M.S.	34,165	935	35,100
14DC38	Stanislaus	FAS 915		Across San Joaquin Riv., 4.5 Mi. E. of Crows Landing		6/21/48	Bos Const. Co.	R.C. Bridge	172,026	1,803	173,829
10DC6	Stanislaus	FAS 915		At San Joaquin Riv., 4.5 Mi. N.E. of Crows Landing	0.6	6/16/49	Karl C. Harnaling	Grade & P.M.S.	34,364	334	34,698
51-10DC1-P	Stanislaus	FAS 916, 914		Bet. Turlock & Crows Landing Rd. & Bet. Monte Vista Ave. & Turlock	9.0	7/13/50	United Conc. Pipe Corp.	Widen & P.M.S. on U.R.B.	90,599	983	91,582
51-10DC2	Stanislaus	FAS 917		Bet. Modesto & 5.4 Mi. Wly.	5.4	7/20/50	United Conc. Pipe Corp.	Widen & P.M.S.	67,119		*67,119
	Stanislaus			Various Locations				Minor Contracts & D.L. Projects	20,596	200	*20,796
0-3TC51-P	Sut, But.	3	A, L10, A1, Gnd	Bet. Lomo & Fagan & in Gridley	7.1	4/ 1/48	McGillivray Const. Co.	P.M.S.	91,808	4,068	95,876
1-3TC69	Sut, But.	3	A, L10, A	Bet. 2.5 Mi. S. Live Oak & Gridley		11/18/49	L. Bornolini & Son	Improve Drainage	41,220	6,770	47,990

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
3TC40	Sutter	3	LiO, A	At Live Oak	1.7	10/ 8/47	McGillivray Const. Co.	Grade & P.M.S. on C.T.B.	\$166,346	\$22,156	\$188,502
3TC28	Sut, Yub	3	YC, Mv1	See Yuba County							
3TC42	Sut, Yub	3	YC, Mv1	See Yuba County							
3TC47	Sut, Yub	3	YC, Mv1	See Yuba County							
14TC5	Sut, Yub	3	YC, Mv1	See Yuba County							
52-3TC3	Sutter	15	A, B	Bet. Meridian & 3 Mi. W. of Yuba City	7.1	5/ 1/51	Rice Bros., Inc.	Resurf. with P.M.S.	82,365	8,600	*90,965
3V40	Sutter	87	B	Bet. Sutter Bypass & Tudor Rd.							
3TC18	Sut, Yub	87, 3	B, A, B	See Yuba County	2.0	9/30/47	Day Labor	Grade Shldrs.	6,999		6,999
14TC30	Sutter	87	B	Across Sutter Bypass, N. of Knights Landing							
51-3TC1	Sutter	87	B	Bet. Tudor Rd. & Lincoln Rd.	5.6	10/23/47	Wm. S. Sheild	Repair Timber Br.	21,318	1,551	22,869
51-3TC8	Sutter	87	B	On Sutter Causeway	1.0	4/ 1/50	Rice Bros., Inc.	P.M.S.	96,846	8,660	105,506
						7/15/50	Rice Bros., Inc.	Resurf. with P.M.S.	14,808		*14,808
14DC46	Sutter	FAS		Across Cross Canal							
		926				11/22/48	Lord & Bishop	R.C. Bridge	117,849	10,588	128,437
3DC13	Sutter	FAS		Bet. Sacramento Co. Line & S. of Striplin Rd.							
		926			7.9	2/17/49	P. J. Moore & Son & Harms Bros.	Grade, I.B. & Seal	246,030	18,778	*264,808
3DC19	Sutter	FAS		Bet. Nicolaus Br. & Tudor							
		926			7.3	9/15/49	A. Teichert & Son, Inc.	Resurf. with P.M.S.	65,885	1,869	*67,754
52-3DC8-P	Sutter	FAS		Bet. 1 Mi. S. of Striplin Rd. & Striplin Rd.	1.1	9/ 4/51	P. J. Moore & Son	Grade, Pen. Tr. & Sl. Ct.	56,768	500	*57,268
		926		Various Locations				Minor Contracts & D.L. Projects	3,325		*3,325
51-14TC10	Teh, But	3	A, D	See Butte County							
2TC13-F	Tehama	3	C	Bet. 6 Mi. N. of Red Bluff & Shasta Co. Line	7.1	1/21/46	Offields Trucking Co. & Phoenix Const. Co.	Grade & P.M.S.	539,402	66,106	605,508
14TC8	Tehama	3	D	Across E. & W. Sand Sloughs, Sampson Slough, Paynes Cr., Salt Cr. & Salt Cr. Overflow		1/22/46	J. D. Proctor, Inc. & Dragline Rentals Co.	5 B.C. Brs. & Widen 2 Conc. Brs.	366,313	36,444	402,757
2TC19	Tehama	3	D	Bet. Mill Race Cr. & Red Bluff	2.8	4/ 2/47	Morrison-Knudsen Co., Inc.	Grade & P.M.S.	140,290	16,759	157,049

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
51-2TC4	Tehama	7	A, B, C, D, E	Bet. S. Boundary of Tehama Co. & Proberta	20.6	4/28/50	McGillivray Const. Co.	Widen Shlrs., P.M.S. & Widen 3 R.C. Brs.	\$412,698	\$52,783	*\$465,481
2TL15	Tehama	29	A	Across Ramsey Cr., Br. No. 8-53		4/ 2/46	Day Labor	Repair Timber Br.	6,512	270	6,812
2TL16	Tehama	29	A	Across Flopper Cr., Br. No. 8-54		6/ 3/46	Day Labor	Repair Timber Br.	9,852	269	10,161
2TL17	Tehama	29	A	Across Dehaven Gulch, Br. No. 8-55		9/10/47	Day Labor	Repair & Reconst. Timber Br. Deck	11,392	220	11,612
2W127	Tehama	29	D, E	Across Dry Cr. & Salt Cr.		4/24/47	Day Labor	Repair 2 Stl. Truss Bridges	11,700		11,700
14WLC58	Tehama	29	E	Across S. Fk. Cottonwood Cr.		8/28/47	C. M. Allen	Repair Stl. Br.	12,682	859	13,541
1-14TC77	Tehama	29	E	Across S. Fk. Cottonwood Cr.		9/ 8/49	Evans Const. Co.	Repair Stl. Br.	13,905	1,582	15,487
14DC27	Tehama	FAS 1078		Across Thomes Cr. & Reed Cr.		10/ 3/47	G. M. Carr & Bati Rocca	2 Stl. Brs. & Armor Ct. Apps.	180,617	16,877	198,494
14DC45	Tehama	FAS 1082		Various Locations		10/19/48	O'Conner Bros.	3 Stl. Brs. & Apps.	267,140	23,089	290,229
51-14DC1	Tehama	FAS 1078		Across Mill, Willow, & McCarty Creeks		8/30/50	H. W. Ruby	2 R.C. Brs. & Apps to 3 Brs.	109,497	12,500	*121,997
14DC52	Tehama	FAS 1080		Across Elder Cr., 0.5 Mi. S. of Garber		8/12/49	Transocean Engr. Corp.	R.C. Bridge	55,262	7,300	*62,562
	Tehama			Various Locations				Minor Contracts & D.L. Projects	15,824		*15,824
2TC29	Tri, Plu, Sha	20, 21	A, B, B	See Plumas County							
2DC6	Trinity	20	FAS 1089	Bet. Rte. 20 & Browns Mtn. & at E. Weaver Cr.	6.5	6/30/47	N. M. Ball Sons	Culv. & R.M.S.	267,110	40,365	*307,475
52-2T12	Trinity	20	A	Across Weaver Cr., Br. No. 5-17		7/19/51	Day Labor	Improve Timber Br.	7,080		7,080
2T43	Tri, Sha	20	B, A	Bet. 1.4 Mi. E. of Buckhorn Maint. Sta. & 4.7 Mi. E. of Trinity Co. Line	6.4	4/17/47	Day Labor	Resurface	30,356	1,469	31,825
41W10	Tri, Hum	20	C, D	See Humboldt County							
1W22	Trinity	20	C, D	Bet. New Riv. Bluffs & Cedar Flat		10/ 9/45	Day Labor	B.S.T.	11,485	307	11,792
1T65	Tri, Hum	20	C, D	See Humboldt County							
1T66	Trinity	20	C	Bet. Sta. 0+00 & Sta. 355+00		10/11/48	Day Labor	Oil	10,000		10,000

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
1T89	Tri. Hum.	20	C, D	See Humboldt County	15.6	8/ 9/50	Day Labor	Oil	\$13,988		\$13,988
1T79	Trinity	20	C, D	Bet. S. Fk. Trinity Riv. & White's Bar Cr.		7/ 2/51	Honor Camp Labor	Grade & Surf.	299,968	\$26,360	*326,328
52-1T10	Trinity	20	C, D	Bet. S. Fk. Trinity Riv. Br. & Prairie Cr.		7/ 2/51	Day Labor	Oil	23,818		*23,818
52-1T11	Trinity	20	C, D	Bet. S. Fork. Trinity Riv. & Del Luna							
14WLC31	Trinity	29	A	Across Hayfork Cr., about 58 Mi. W. of Red Bluff		5/17/46	C. C. Gildersleeve	Steel Bridge	9,582	1,028	10,610
2T83	Trinity	29	A	Across Salt Cr., 2 Mi. E. of Peanut		5/25/51	Day Labor	Reconst. Timber Br. & Apps.	10,449		10,449
1T88	Trinity	35	B	Bet. Peanut & Hayfork	5.9	3/11/49	Day Labor	Grade & Surf.	14,999	575	15,574
14WLC55	Trinity	35	C	Across Redding Cr.		6/12/47	C. C. Gildersleeve	Widen Timber Br.	19,020	1,204	20,224
2DC10	Trinity	FAS 1089		Bet. Rte. 20 & Browns Mountain	6.3	8/25/48	Morgan Const. Co.	Seal Coat	13,594	1,957	*15,551
	Trinity			Various Locations				Minor Contracts & D.L. Projects	22,479		*22,479
14VC29	Tulare	4	A	Across White River Sink		3/ 5/47	Wheeler Const. Co.	R.C. Br. & Apps.	31,264	4,732	35,996
6XC13	Tul. Ker.	4, 33	A, D	Bet. Delano & 2.5 Mi. S. of Earlhart & Bet. 2.1 Mi. E. of Wasco & Famoso	8.3	4/10/47	Griffith Co.	P.M.S.	84,588	6,529	91,117
6VC3	Tulare	4	B, E, F	Bet. Quail Sta. & 6.5 Mi. N. of Goshen	13.5	4/13/45	Brown, Doko & Baun	P.M.B.M.	110,714	12,176	122,890
6V14	Tulare	4	B, E, F	Bet. Rte. 127 & 9.5 Mi. N. of Goshen		3/19/46	Day Labor	Restore Oiled Borders	15,681	229	15,910
0-6VC27	Tulare	4	B	Bet. 1 Mi. S. of Tipton & Tulare Airport	7.9	8/ 3/48	N. M. Ball Sons.	Grade & 5 R.C. Brs.	598,738	61,042	*660,777
0-6VC35-F	Tulare	4	B	Bet. 1 Mi. S. of Tipton & Tulare Airport	7.8	6/ 1/49	N. M. Ball Sons.	P.C.C.	689,298	44,520	*703,818
1-6VVC4	Tulare	4	B	At 6th St. in Tipton		4/29/50	L. H. Leonardi Etc. Const. Co.	Signals & Lights	12,784	1,410	14,194
6VC9	Tulare	4	E	Bet. 3.6 & 0.4 Mi. S. of Kingsburg	3.0	6/ 7/46	Valley Pav. & Const. Co., Inc.	Repair with P.M.S. & Sl. Ct.	33,725	4,785	38,510
6TC8-P	Tul. Fre	4	E, D	See Fresno County							
6TC11-P	Tul. Fre	4	Kugb, A E, D Kugb, A	Bet. Mendocino Ave. & 0.3 Mi. N. of Kingsburg		2/27/48	Tri-Cities Etc. Serv.	Signals & Lights	27,235	2,094	29,269
51-6VC3-F	Tulare	4	E	Bet. 1 Mi. N. of Goshen & Traver	6.3	1/ 4/51	Griffith Co.	Grade, P.C.C. on C.T.S. & 5 R.C. Brs.	641,516	70,000	*711,516
6VC22	Tulare	4	F	Bet. 0.5 Mi. S. of Tagus & Rte. 10	5.0	6/18/48	Guy F. Atkinson Co.	Grade, P.C.C. & P.M.S. & R.C. Br.	793,477	84,394	*877,871
1-6VC39	Tulare	4	F	Bet. 0.5 Mi. S. of Tagus & Rte. 10	2.9	9/15/49	Geo. E. France, Inc.	Resurf. with P.M.S.	50,167	6,131	*56,298

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
51-6VC3-P	Tulare	10,132	B, Vis, Vis	At Mooney Blvd.	-----	7/26/50	Westates Elcl. Const. Co.	Signals & Lights.	\$18,454	\$2,029	\$20,483
51-14BC4-F	Tulare	10	C	Across Deep Cr., 5.4 Mi. E. of Visalia.	-----	6/28/51	Rex B. Sawyer	Replace R.C. Br.	43,011	-----	*43,011
1-6VC41	Tulare	10	Vis, C	Bet. Visalia & Venida Sub-Station.	-----	3/24/50	Griffith Co.	P.M.S. & B.S.T.	99,756	12,597	112,353
51-6VC7-P	Tulare	10	Vis	At Conyer Sta.	-----	11/ 8/50	Clinton Ele. Corp.	Signals & Lights.	4,364	558	4,922
6XC10	Tul. Ker	129	A, A, B	See Kern County	-----						
0-6VC23	Tul. Ker	129	A, A, B	See Kern County	-----						
1-14VC89	Tulare	129	B	Across Deer Cr. & Deer Cr. Ditch.	-----	7/ 7/49	Thomas Const. Co.	R.C. Br. & R.C. Culv.	61,061	7,986	69,047
6X22	Tulare	129	D	Bet. Cairn's Corners & 4.4 Mi. N'y.	4.4	3/20/47	Day Labor	Resurface.	28,049	189	28,263
14XC20	Tulare	129	E	Across Yokohl Cr.	-----	3/24/47	R. M. Price Co.	Steel Br. & Apprs.	89,154	9,408	98,562
51-6VC10	Tulare	129	Prrv	At Morton St.	-----	12/13/50	Clinton Ele. Corp.	Signals.	3,974	651	4,625
6XC12	Tulare	132	A, Vis	Bet. Packwood Cr. & Rte. 10.	2.3	3/24/47	R. M. Price Co.	Grade & P.M.S.	219,489	16,294	235,783
1-6VC31	Tulare	132	A	Bet. Rte. 134 & Packwood Cr.	5.8	4/ 1/49	Valley Pav. & Const. Co., Inc.	P.M.S.	52,495	6,026	58,521
0-14VC87	Tulare	133	A	At St. Johns Riv., 4 Mi. NE. of Visalia.	1.2	6/ 7/49	Anderson Co.	P.M.S. on U.R.B. & R.C. Br.	146,550	17,004	163,554
51-6VC8	Tulare	134	B	At Proposed Rte. 134 OC	-----	11/21/50	L. H. Leonardi Ele. Const. Co.	Lights.	11,496	1,780	*13,246
14DC32	Tulare	FAS 1126		Bet. 3 & 15 Mi. S. of Visalia (portions)	-----	12/ 9/47	Trehwitt, Shields & Fisher.	4 R.C. Bridges	47,578	3,827	51,405
6DC11	Tulare	FAS 1137		Bet. FAS Rte. 1129 & State Rte. 134.	8.0	6/29/48	Geo. E. France, Inc.	Grade & B.S.T.	145,191	9,004	154,195
14DC23	Tulare	FAS 1126		Across Tule Riv.	-----	7/23/47	Trehwitt, Shields & Fisher.	R.C. Bridge	127,206	4,221	131,427
6DC8	Tulare	FAS 1128		Bet. 4 Mi. & 6.5 Mi. W. of Porterville.	-----	11/29/47	F. Gunner Granatky	I.B. & P.M.S.	51,497	2,421	53,918
6DC6	Tulare	FAS 1129		Bet. 2 Mi. W. of Woodville & Poplar.	8.0	7/23/47	F. Gunner Granatky	Widen & P.M.S.	183,226	6,306	189,532
14DC14	Tulare	FAS 1130		Across White Riv., about 7 Mi. SE. of Earlimart.	-----	5/16/47	E. H. Peterson & Son.	R.C. Bridge	15,136	374	15,510

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
14DC15	Tulare	FAS 1136		Across St. Johns Riv.		5/12/47	Northup Const. Co.	R.C. Bridges	\$133,697	\$3,737	\$137,434
1-6DC23-P	Tulare	FAS 1138		Bet. State Rte. 134 & 6 Mi. N.	6.0	2/23/50	Geo. E. France, Inc.	Grade & R.M.S.	128,652	5,192	133,844
51-6DC5-P	Tulare	FAS 1137 1137 1138		Bet. FAS 1143 & Rte. 10 & Bet. Rte. 10 & Rte. 133	3.0	12/ 9/50	Rice Bros. Inc.	Grade, P.M.S. & R.C. Br.	187,769	1,707	189,476
14DC28	Tulare	FAS 1140		Across St. Johns Riv., about 12 Mi. NE. of Visalia		10/10/47	Charles MacClosky Co.	Reconst. Sd. & Conc. Br.	65,621	4,931	70,552
14DC41	Tulare	FAS 1140		Across Peoples Ditch		8/11/48	Trewhitt, Shields & Fisher	Steel Bridge	34,190	4,596	38,786
1-14DC56-P	Tulare	FAS 1140		Across Kaweah Riv. & Ketchum Ditch, about 10 Mi. NE. of Visalia		9/29/49	C. B. Tuttle Co.	R.C. Br. & R.C. Culv.	50,696	470	51,166
14DC19	Tulare	FAS 1142		Across Kings Riv., about 5.5 Mi. W. of Dinuba		6/ 4/47	Carl N. Swenson Co., Inc.	R.C. Bridge	190,875	5,581	196,456
51-6DC1-P	Tulare	FAS 1142		Bet. Dinuba & Orosi	4.8	8/18/50	Oilfields Trucking Co. & Phoenix Const. Co., Inc.	Grade & P.M.S.	108,189	2,837	111,026
	Tulare			Various Locations				Minor Contracts & D.L. Projects	31,057	996	*32,053
1-10TC59-F	Tuolumne	13	B	Bet. Montezuma Rd. & 1 Mi. S. of Jamestown	1.7	12/ 2/49	Geo. E. France, Inc.	Grade & P.M.S.	202,390	29,545	*231,935
10TC16	Tuolumne	13	Sra	On Stockton St.	0.4	1/24/47	Beerman & Jones	Grade & P.M.S.	79,299	16,767	96,066
14TC34	Tuolumne	40	A, B	Across Tuolumne Riv. at Stevens Bar	0.2	12/26/47	Elmer J. Warner	Steel Br. & Apprs.	176,403	15,463	191,866
10DC10-P	Tuolumne	FAS 919		Bet. Rte. 13 and Stanislaus Co. Line	12.6	3/ 8/50	Chittenden & Chittenden	Grade & Pen. Tr. & Sl. Ct.	67,351	28,430	*95,781
	Tuolumne			Various Locations				Minor Contracts & D.L. Projects	22,264		*22,264
51-7VC13-F	Ven, L.A.	2	A, C	See Los Angeles County							

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost.	Const. engr.	Total
7VC30-F 7VC32	Ventura Ventura	2 2, 9, 79	C, Ven C, A, Ven	Bet. Montalvo & Ventura At Intr. of Ventura Blvd. & Telephone & Telegraph Rds.	3.4	2/ 4/ 47	J. E. Haddock, Ltd.	Grade & P.C.C. & P.M.S.	\$801,139	\$63,453	*\$864,592
7VC61 7VC69 7VC83	Ventura Ventura Ventura	2, 60 2, 60 2	C, B C, B C	Jct. Rte. 2 & Rte. 60 near El Rio. Jct. Rte. 2 & Rte. 60 near El Rio. 1.1 Mi. W. of Montalvo.	1.3	3/24/47 2/20/48 3/29/48 6/29/48	L. H. Leonardi Elc. Const. Co. Smith-Edmondson Co. Tri-Cities Elc. Serv.	Signals. P.M.S. on P.C.C. Base. Signals.	38,485 169,552 21,628	1,523 22,654 1,408	38,008 192,206 23,036
1-7VC121 1-7VC18 51-7VC53	Ventura Ventura Ventura	2 2 2	C C, Ven C	Bet. Montalvo & Ventura Bet. Montalvo & Ventura From Santa Clara Riv. Br. through Montalvo.	1.8 3.0	6/ 1/ 49 11/ 8/ 50	Edmondson Baker & Pollock Stephen L. Vistica	Scales & Apprs. P.M.S. Roadside Development.	67,755 56,670 5,352	3,673 6,647 700	51,428 63,317 *6,052
51-7VC86	Ventura	2	C	From Santa Clara Riv. Br. through Montalvo.	1.3	5/23/51	Fredertksen & Kasler	Grade & P.M.S. on C.T.B.	400,049	50,000	*450,049
7VC84 51-7VC43	Ventura Ven, Ker, L.A.	2 2, 4	F F, A, A, D, J	Bet. Seaciff & Mussel Shoal. See Los Angeles County	1.2	6/28/51 6/29/48	Elc. & Mach. Serv. Inc. Clyde W. Wood, Inc.	Lights	7,825	900	*8,725
1-5VC32-F	Ven, S.B.	2	G, H	Bet. 0.2 Mi. E. of Ventura Co. Line & 0.2 Mi. E. of Carpinteria	2.5	10/11/49	Granite Const. Co.	Grade & P.M.S.	699,722	98,073	*797,795
7VC77 51-7VC2	Ventura Ventura	2 2	Ven Ven	In Ventura Bet. E.C.L. & San Jon Rd.	1.3	6/11/48 4/ 1/ 50	Tri-Cities Elc. Serv. Griffith Co.	Signals P.M.S.	38,779 33,359	2,048 2,257	40,827 35,616
51-14VC8 52-7VC1	Ventura Ventura	9 9	A, B, C A, A	Various Locations Bet. Rte. 2 & Santa Clara Riv.	3.9	11/ 9/ 50 4/ 2/ 51	Norman I. Fadel Conrad Const. Co., Inc.	R.C. Br. & Widen 6 R.C. Brs. P.M.S.	92,274 39,272	15,300 3,000	*107,574 *44,272
7V153	Ventura	9	C	At Santa Susana Pass.	0.9	11/ 2/ 49	Day Labor	Widen & Resurf.	34,766	1,457	36,223
7Y63 7VC36 52-7V21	Ventura Ventura Ventura	60 60 60	A A A	Bet. Oxnard & Big Sycamore Bet. Oxnard & Big Sycamore Cr. At Black Point & Big Sycamore Cr.	5.7 0.1	3/25/47 5/ 5/ 47 1/ 3/ 52	Day Labor Baker & Pollock Day Labor	Repair Road Resurf. with P.M.S. Repair Storm Damage	8,344 87,190 37,072	8,344 6,202	8,344 93,392 *37,072
0-14VC74 0-7VC126 0-7VC129	Ventura Ventura Ventura	60 60 60	B B, Oxn B	0.5 Mi. W. of El Rio. Bet. Rte. 2 & Oxnard Oxnard Blvd.	2.1	11/ 5/ 48 6/18/49 6/28/49	Grant I. Miner Griffith Co. Tri-Cities Elc. Serv., Inc.	Widen Steel UP Grade, A.C. & P.C.C. Signals & Lights.	122,345 239,982 11,699	14,542 34,803 1,606	136,887 274,785 13,305
7VMC24 1-7VC142 1-7VC145	Ventura Ventura Ventura	60 60 60	Oxn Oxn Oxn	On Oxnard Blvd. Bet. N.C.L. & S.C.L. At Savers Woolley Rd.	1.9	4/22/48 1/ 3/ 50 1/30/50	Elc. & Mach. Serv., Inc. Baker & Pollock Westates Elc. Const. Co.	Signals Grade & A.C. Signals & Lights.	11,536 269,346 12,538	11,536 34,564 1,138	11,536 303,910 13,676
7X48 7XC34	Ventura Ventura	79 79	A A	Bet. Sta. 486 & Sta. 513 Bet. Ellsworth Barranca & Santa Paula	0.5 4.0	2/21/46 5/ 9/ 47	Day Labor O'Brien & Bell Const. Co.	Improve Drainage P.M.S. & Shldrs.	5,194 23,927	5,194 1,191	5,194 25,114

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
1-7VC123	Ventura	79	A	Bet. Wells Rd. & Ellsworth Barranca	1.4	6/ 7/49	C.J.B. Const. Co.	Widen & Resurf. with P.M.S.	\$33,486	\$4,310	\$37,796
1-7VC124	Ventura	138	A	Bet. 2.5 Mi. & 6.4 Mi. N. of Ventura City Limits	4.0	6/ 6/49	Frank T. Hickey, Inc.	Grade & P.M.S.	92,765	10,800	103,565
7XL14	Ventura	138	B	Across N. Flk. Matilija Cr., Br. No. 32-173	0.2	5/16/46 10/22/48	Day Labor Day Labor	Steel Bridge	30,526	1,412	31,938
7V136	Ventura	138	B	Across Matilija Cr.	0.7	1/17/48	Day Labor	Resurface	39,540	4,228	63,768
7V100	Ventura	138	Ven	Bet. Main St. & N.C.L.	0.7	2/19/51	Clinton Ele. Corp.	Signals	7,935		7,935
51-7VC40-P	Ventura	138	Ven	At Main St., Park Row Ave., Center St., & Ramona Ave.					13,388	1,191	14,579
1-7VC119	Ventura	153	B	Bet. Rte. 2 & Rte. 9	4.1	5/26/49	Frank T. Hickey, Inc.	Resurf. with P.M.S. & B.S.T.	28,511	7,432	35,943
7DC3	Ventura	FAS 808		On Pleasant Valley Rd. & Wood Rd. Bet. Ventura Co. R.R. & Ventura Blvd.	6.5	6/26/47	Frank T. Hickey, Inc.	P.M.S.	154,589	14,419	168,998
7DC1	Ventura	FAS 877		On Las Posas Rd., Bet. State Hwy. Rte. 2 & State Hwy. Rte. 153	4.3	12/ 6/46	MacDonald & Kruse, Inc.	P.M.S.	88,575	6,042	74,617
	Ventura			Various Locations				Minor Contracts & D.L. Projects	44,532		*44,532
3WC7	Yolo	6, 99	A, B	Bet. 1 Mi. E. of Davis & Swingle & Bet. 2.25 Mi. N. of Arcade Sta. & Jet. Rte. 6	7.3	5/21/46	A. Teichert & Son, Inc.	Repair with P.M.S. & C.R.B.	74,047	5,182	79,229
1-3TC71	Yolo	6	B	On Yolo Causeway	3.1	2/11/50	Grason Ele. Co.	Lights	31,528	2,724	34,252
51-3TC5	Yolo	6	B	S. Half of Yolo Causeway	2.6	6/22/50	Brighton Sand & Gravel Co.	Resurf. with P.M.S.	14,485	2,100	*16,585
51-3TC6-F	Yolo	6, 99	C, B	Intra. Rtes. 6 & 99	0.5	6/27/50	Charles MacClosky & Harnus Bros.	Grade, P.M.S. on C.R.B. & 2 R.C. Grade Seps. & Apps.	248,859	30,500	*279,359
3T98	Yolo	6	C	Bet. Sta. 701± & Sta. 743±	0.8	7/ 6/50	Day Labor	Reprocess A.C.	14,312	215	*14,527
51-14TC13-F	Yolo	6	C	On W. Sacramento Freeway, Over Yolo Causeway Off Ramp		8/18/50	Charles MacClosky & Harnus Bros.	P.M.S.	96,678	12,700	*109,378
51-3TC11	Yolo	6	C	Bet. Jefferson Blvd. & Park Blvd.	0.4	9/14/50	Brighton Sand & Gravel Co.		9,829	1,550	*11,379
51-14TC21-F	Yolo	6	C	On W. Sacramento Freeway, Over Jefferson Blvd.	0.2	11/ 8/50	Charles MacClosky & Harnus Bros.	Grade, P.M.S. on C.R.B., & R.C. Overcrossing	86,591	10,000	*96,591

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
51-14TC22	Yol. Sac.	6	C, Sac	Across Sacramento Riv.		11/28/50	A. Teichert & Son, Inc.	P.C.C. Curbs	\$8,872	\$1,148	\$10,020
51-14TC23-F	Yolo	6	C	Bet. Yolo Causeway & Tower Br.	0.8	12/14/50	A. Teichert & Son, Inc.	R.C. OC, S.L. UP., & R.C. & S.L. UP. & OC, Ramps & Detours.	401,018	42,500	*443,518
52-3TC16	Yolo	6	C	Bet. Washington UP. & Tower Br.	0.6	11/15/51	Brighton Sand & Gravel Co.	Grade & Drainage Structs.	23,293	3,000	*26,293
1-10TC48	Yol. Sol.	6	E, A	See Solano County							
3WC10	Yolo	7, 87	A, Wd, A	Bet. 1.25 Mi. N. of Solano Co. Line & Woodland & Bet. 3.75 Mi. N. of Woodland & 1 Mi. S. of Knights Landing	9.2	4/16/47	McGillivray Const. Co.	P.M.S. & S.L. Ch.	87,174	7,553	94,727
3WC12	Yolo	7, 87	A, A	Bet. 1.9 Mi. N. of Solano Co. Line & 1.6 Mi. S. of Woodland & Bet. 0.3 Mi. & 3.9 Mi. N. of Woodland	4.9	6/18/47	McGillivray Const. Co.	P.M.S.	45,613	2,282	47,895
14TC13	Yol. Sol.	7	A, E	See Solano County							
0-3TC48	Yolo	7, 87	A, B, Wd, A	Bet. Pritch Cr. & Zamora & Bet. Woodland & Knights Landing	24.6	4/10/48	Nunn & Perkins	Grade & P.M.S.	45,792	5,445	51,237
3789	Yolo	7	A	S.P. Crossing at Mullen		1/13/49	Day Labor	Improve Crossing	5,653	670	6,323
1-14TC70	Yolo	7	A, B, C	Bet. Pritch Cr. & Colusa Co. Line		7/ 1/49	Grant L. Miner	4 R.C. Bds. & Extend 29 Culvs.	148,519	18,170	*166,689
51-14TC15	Yol. Sol.	7	A, E	See Solano County							
3TC25	Yolo	7	B, C	Bet. Cache Cr. & Dunnigan	14.0	5/21/46	Fredrickson Bros.	Repair with P.M.S. & C.R.B. & Place I.B. on Shldrs.	153,896	10,552	164,448
1-3TC68	Yolo	7	B, C	At Zamora	1.2	8/ 2/49	Fredrickson Bros.	Grade & P.M.S.	133,570	13,196	146,766
3765	Yolo	7	C	Bet. Zamora & Hershey	10.9	4/17/47	Day Labor	Prime & Seal Shldrs.	11,194	57	11,251
1-3TC61	Yolo	50	C	Across Saltroyer & Salt Crs.	0.7	5/11/49	O'Conner Bros.	2 R.C. Culvs. & P.M.S. on Apprs.	44,447	7,029	51,476
14WLC32	Yolo	50	E	Across Tule Canal, about 6 Mi. E. of Woodland		6/25/46	M. A. Jenkins	R.C. Br. & Apprs.	87,102	9,317	96,419
3WC13	Yolo	50	E	At W. Side of Yolo Bypass	0.1	7/29/47	H & D Const. Co.	Grade & B.S.T.	33,813	3,808	37,621
3TC53	Yolo	50	F	At N. End of Sacramento Weir	0.2	5/27/48	A. Teichert & Son, Inc.	Grade & P.M.S. on I.B.	14,797	2,131	16,928
37101	Yolo	50	Wd, E	Bet. East St. & Yolo Bypass		2/ 8/51	Day Labor	Subseal	4,340		4,340
52-3TC4	Yolo	50	Wd, E	Bet. Woodland & Yolo Bypass	5.1	5/ 9/51	A. Teichert & Son	P.M.S.	138,136	16,000	*154,136
3WC8	Yolo	87	A	Bet. Woodland & Knights Landing	9.5	6/26/46	Folsom & Drollinger	C.R.B. on Borders	35,221	2,313	37,534
1-14TC63	Yolo	87	A	Across Sacramento Riv. at Knights Landing		4/ 1/49	B. S. McElderry	Repair Sd. Truss Br.	34,393	2,222	36,615

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
1-3TC59	Yolo	90	A, B	Bet. Winters & Rte. 7	16.1	4/19/49	McGillivray Const. Co.	B.S.T. & I.B.	\$123,491	\$13,326	\$136,817
3WC11	Yolo	99	A	Bet. Solano Co. Line & 2 Mi. S. of Irrigation canal	8.9	5/15/47	McGillivray Const. Co.	I.B. on Shldrs.	27,665	1,282	28,947
14DC7	Yolo	FAS 1154		Across Moody Slough & Cache Cr.		3/ 7/47	Chittenden & Chittenden	2 R.C. Bridges	74,252	4,078	78,330
14DC39	Yolo	FAS 1152		Across Cache Cr.		8/ 9/48	Chas. T. Brown Co.	Reconstruct R.C. Br.	71,471	6,040	77,511
3DC8	Yolo	FAS 1155		Bet. Rte. 99 & Clarksburg	4.5	5/ 6/48	A. Teichert & Son, Inc.	Grade & Pen. Tr.	93,351	4,236	97,587
14DC31	Yolo	FAS 1156		Across Knights Landing Ridge Cut Canal		11/17/47	Chittenden & Chittenden	Timber Br.	50,243	3,863	54,106
52-3DC5	Yolo	FAS 1158 1167		Bet. Co. Rd. 29 & Co. Rd. 27 about 6 Mi. S. of Woodland	2.0	8/14/51	W. C. Railing	P.M.S. on U.R.B. & Pen. Tr. on Shldrs.	64,909	8,500	*73,409
52-3DC9	Yolo	FAS 1167		Bet. Co. Rd. 27 & 1 Mi. N. Abt. 4 Mi. S. of Woodland	1.0	11/ 7/51	W. C. Railing	P.M.S. on U.R.B. & Pen. Tr. on Shldrs.	32,382	4,800	*37,182
3T43	Yolo	3		Various Locations		4/22/46	Day Labor	Minor Contracts & D.L. Projects	13,679		*13,679
1-3TC65	Yuba	3	A	Across Grasshopper Slough Overflow				Replace Timber Br. with C.M.P. Culv. & Fill	5,344		5,344
52-3TC8	Yub. Pla.	3	A, B	See Placer County				B.S.T. on Shldrs.	7,213	1,900	*8,213
3TC18	Yub. Sut.	3, 87	B, A, B	Bet. Wheatland & Morrison's Crossing	2.4	6/ 7/51	Claude C. Wood Co.				
				On Rte. 3 Bet. Morrison's Crossing & Linda Corners, Bet. Yuba City & Lono, & on Rte. 87, Bet. Sutter Bypass & Tudor Rd.							
0-14TC68	Yuba	3	B, Mvl	Across Yuba Riv. Br. on D St., Br. No. 10-48	12.2	6/ 4/45	Lester L. Rice	Repair with I.B. & P.M.B.M.	100,700	5,463	106,163
3TC94	Yuba	3	B, Mvl	Yuba Riv. Br. on D St., Br. No. 10-48		6/ 7/49	Underground Const. Co.	Repair Conc. Br.	99,658	2,098	101,756
						11/18/49	Day Labor	Repair Conc. Br.	5,424		5,424
14TC5	Yub. Sut.	3	Mvl, YC	Bet. 1 St. in Marysville & Market St. in Yuba City	0.9	12/19/45	J. H. Pomeroy & Co., Inc.	Std. Br. & Apprs.	1,853,359	84,327	1,937,686
3TC28	Yub. Sut.	3	Mvl, YC	Bet. D St. Br. in Marysville & Rte. 15 in Yuba City	2.0	6/22/46	Lester L. Rice	A.C.	671,738	55,995	727,733
3TC42	Yub. Sut.	3	Mvl, YC	Bet. D St. Br. & Rte. 15 in Yuba City		11/ 5/47	Tri-Chites Elec. Serv.	Signals & Lights	83,160	3,561	86,721
3TC47	Yub. Sut.	3	Mvl, YC	Bet. D St. Br. & Live Oak Rd.	2.0	2/17/48	Huetting & Schromm	Landscaping	38,889	8,039	46,924

COMPLETED CONTRACTS—June 30, 1952—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Const. cost	Const. engr.	Total
1-3TC72-P	Yuba	3, 15	Mvl	At 10th & E Sts. & on 9th St. Bet. E St. & B St.	0.3	5/11/50	Rice Bros., Inc.	P.M.S. on C.R.B.	\$19,556	\$1,674	\$21,230
52-3TC12-P	Yuba	3, 15	Mvl	On 10th St. at H St. & 1 St. on 9th St. at B St.		8/14/51	L. H. Leonard & Co.	Signals & Lights	24,297	1,750	*26,047
52-14T10	Yuba	15	B	Yuba Riv. Br. at Parks Bar		7/16/51	Day Labor	Repair Piers	50,363	4,105	*54,468
1-3TC67	Yub. Sie	25	A, A	Bet. 0.3 Mi. W. & 2.6 Mi. E. of Yuba-Sierra Co. Line	2.1	11/ 9/49	Louis Biasotti & Son	Grade, B.S.T. & Sl. Ct.	294,989	37,000	*331,989
14WLC37	Yuba	87	A	Across Simmerly Slough		7/11/46	Lord & Bishop	Timber Br.	13,641	1,135	14,776
51-3TC7	Yuba	87	A	Bet. Marysville & Butte Co. Line	0.7	7/ 6/50	Rice Bros., Inc.	Grade, P.M.S., & P.C.C. Struct.	30,797	4,000	*34,797
52-3TC2	Yuba	87	A	Bet. Simmerly Slough & 0.4 Mi. S. of Butte Co. Line	8.4	4/25/51	Rice Bros., Inc.	Base & P.M.S.	234,996	22,000	*256,996
3DC10	Yuba	FAS 526		Bet. N. of Stanfield Hill & S. of French Town Rd.	4.1	10/ 6/48	A. R. McEwen	Pen. Tr. & Seal	179,410	18,646	198,056
14DC21	Yuba	FAS 421		Bet. Plumas School & FAS Rte. 422	1.2	9/10/47	H. Earl Parker, Inc.	Grade, I.B. & 2 Conc. Brs.	91,079	12,262	103,341
	Yuba			Various Locations				Minor Contracts & D.L. Projects	16,100	500	*16,600

INCOMPLETE CONTRACTS

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
52-4TC5-F	Alameda-----	5	B	Bet. Hopyard Rd. & 2.5 Mi. W. of Dublin-----	4.6	7/24/51	Fredrickson & Watson Const. Co.-----	Grade, P.C.C. on C.T.S., P.M.S., Lights & 2 R.C. Brs.-----	\$1,402,819
52-4TC33	Alameda-----	5	Hay	Bet. Castro St. & San Lorenzo Cr.-----	0.7	5/ 9/52	Chas. L. Harney, Inc.-----	Grade, P.M.S., Signals & Lights-----	312,177
52-15TC1	Alameda-----	5	Oak	Bet. Toll Plaza & Ely. Terminus SF-OBBSan Francisco County	-----	6/25/52	Severin Ele. Co.-----	Replace Underground Ele. Cable-----	50,231
52-14BBC1	Ala. S.F.-----	68	SF-OBBS	At Intrs. Hesperian Blvd. with Lewelling Blvd.-----	-----	3/ 3/52	Underground Ele. Const. Co.-----	Signals, Lights & Chnlz.-----	13,373
52-4TC29	Alameda-----	69, 228	B, A	Bet. Lewelling Blvd. & 0.1 Mi. N. of S.C.L. of Oakland-----	4.2	10/26/50	Fredrickson & Watson Const. Co. & M & K Corp.-----	Grade, P.C.C. on C.T.S., P.M.S. & 6 Sth. Seps.-----	3,047,386
51-4TC17-F	Alameda-----	69	C.SLn, Oak	Bet. Lewelling Blvd. & S.C.L. of Oakland-----	4.2	12/26/51	Day Labor-----	Signs & Stripes-----	16,000
52-4TC16	Alameda-----	69	C.SLn, Oak	Bet. Lewelling Blvd. & S.C.L. of Oakland-----	4.2	10/25/51	Fredrickson & Watson Const. Co. & M & K Corp.-----	Grade, P.C.C. & P.M.S. & R.C. UC. 3 R.C. OC's, R.C. Ped UC. Sth. Br. & Off-Ramp Br., & 2 Sth. UC's-----	2,716,643
52-4TC19-F	Alameda-----	69	D Hay C	On Eastshore Frwy., Bet. Jackson St. & Lewelling Blvd.-----	3.9	6/20/52	Day Labor-----	Complete Connection for Free Right Turn-----	5,000
52-4TC23	Alameda-----	69	D Hay C	Bet. Lewelling Blvd. & Hesperian Blvd.-----	-----	3/15/49	Day Labor-----	Directional Signs-----	11,000
4TC115	Alameda-----	69	Oak	Bet. Sta. 205+24 & Sta. 358+50-----	-----	1/12/50	Day Labor-----	Signs, Stripes & Markings-----	6,800
4TC126	Alameda-----	69	Oak	Bet. S.C.L. & High St.-----	3.3	3/ 2/50	Day Labor-----	Signs, Stripes & Markings-----	13,000
52-4TC37-F	Alameda-----	69	Oak, Env	At 42d Ave. Interchange & High St. OH Eastshore Frwy., Bet. Distr. Struc. & Ashby Ave.-----	1.5	6/24/52	Peter Krewit Sons Co.-----	Grade, P.C.C., R.C. OC. & R.C. UC.-----	2,766,619
4TC146	Alameda-----	105	Oak	On 7th St. at Webster St. & Grove St. & E. 14th St. at 85th Ave.-----	-----	5/21/51	Day Labor-----	Signals-----	6,000
52-4TC19	Alameda-----	105	Oak	At Intrs. of E. 14th St. with 90th Ave., 66th Ave. & with Hainescourt Blvd.-----	-----	3/ 3/52	Day Labor-----	Signals-----	6,000
52-4TC18	Alameda-----	226	A, SLn	Bet. S.C.L. of Oakland & Alvarado St. (Por.)-----	1.9	10/18/51	Lee J. Immel-----	Grade & P.M.S. on C.R.B.-----	203,933
51-14TC28-F	Alameda-----	226	Ala	Across San Leandro Bay (Bay Farm Island Br.)-----	-----	4/25/51	The Duncanson-Harrelson Co. & Stolte Inc.-----	Sth. Br.-----	1,811,709

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
52-13T1	Alameda	227	Oak	Bet. Rte. 75 & Rte. 5 (Por.)		2/20/52	Day Labor	Grade, Pave & Struets.	\$300,000
	Alameda			Various Locations				Minor Contracts & D.L. Projects	*\$28,707
52-10BC1-FP	Alpine	23, 24	C, C, D	Bet. Silver Mt. & 2.5 Mi. N. of Woodfords	1.1	8/14/51	Eaton & Smith	Grade, B.S.T. on I.B.M. & Slope Protection, & R.C. Br., & Repair R.C. Br.	302,083
52-10TC7	Alpine	23	E	Bet. 1.3 & 2.6 Mi. E. of Pickets	1.3	8/30/51	Harns Bros.	Grade, R.M.S. on I.B.M., & R.C. Br.	280,229
1-10TC58	Alpine	34	A, B	Bet. Wily. Boundary & Carson Pass	5.4	10/28/49	Johnston Rock Co.	Grade, B.S.T. on I.B.M. & Sl. Ct.	315,824
	Alpine			Various Locations				Minor Contracts & D.L. Projects	*\$290
51-10TC9	Amador	34	H	Bet. Silver Lake & Alpine Co. Line.	3.6	8/17/50	Harns Bros.	Grade, I.B. & B.S.T.	246,436
52-14TC13	Ama, Cal.	65	C, A	Across Mokelumne Riv. About 4 Mi. S. of Jackson.		10/15/51	Tumblin Co.	R.C. Br.	141,029
52-10TC16-FP	Ama, Cal.	65	C, A	Bet. 0.4 Mi. SE. of Jackson & 1.5 Mi. W. of Mokelumne Hill	4.5	6/12/52	Claude C. Wood Co.	Grade & P.M.S.	401,651
	Amador			Various Locations				Minor Contracts & D.L. Projects	*\$5,560
52-14TC14	Butte	3	B, C	At Various Locations Bet. Oroville Wye & 0.3 Mi. S. of Chico.	0.9	10/30/51	H. W. Ruby	13 R.C. Brs., Grade & Pen. Tr. of Apprs., & Detours.	579,535
52-3TC17-F	Butte	3	B,C,Chc	Bet. 3.8 Mi. N. of Oroville Wye & 20th St. in Chico.	14.9	5/12/52	Richter Bros.	Grade, P.M.S. & Lights	739,802
52-14TC10	Butte	87	B	Across Dry Cr., Abt. 11.5 Mi. S. of Chico.		6/11/52	Ted Schwartz.	Repair Sl. Br.	13,000
52-3DC13	Butte	FAS 758		Bet. Pennington Rd. & Wade Rd.	3.3	6/13/52	Clements & Co.	Grade, U.R.B. & B.S.T.	116,000
51-14DC10-P	Butte	FAS 1169		Under Tracks of S.P.R.R. & W.P.R.R. & at High Sierra Pine Mills near City of Oroville		6/15/51	C. K. Moseman	2 Sl. UP. & 1 Sl. Br.	248,700
	Butte			Various Locations				Minor Contracts & D.L. Projects	*1,900
10T76	Calaveras	65	A	At Murray Cr.		8/15/49	Day Labor	Detour, Signs, & Stripe	5,080
52-14TC13	Cal, Ama	65	A, C	See Amador County					
52-10TC16-F	Cal, Ama	65	A, C	See Amador County					
52-10DC4	Calaveras	FAS 953		Bet. 5.3 & 9.7 Mi. N. of Mountain Ranch.	4.4	9/7/51	Claude C. Wood Co.	Grade & Pen. Tr. on I.S.M.	90,000

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
52-3TC10-F	Calaveras	7	A	Various Locations Bet. Arbuttle & 3 Mi. N.	3.0	7/13/51	Clements & Co.	Minor Contracts & D.L. Projects	*\$1,875
53-3TC4	Colusa	15	A, Clu	Bet. 0.2 Mi. E. of Colusa Basin Br. & Colusa	2.2	6/10/52	Claude C. Wood Co.	Grade, P.M.S. on C.R.B. & 4 R.C. Brs.	400,546
53-4TC4	Colusa	88	A	At High Ditch & Wilkins Slough, About 21 & 18 Mi. S. of Colusa	0.3	4/14/52	Chas. S. Moore & Robt. R. Mordoch	C.T.S. & Sl. Ct.	34,947
52-4TC23-P 52-10T13	Contra Costa	7	A	Various Locations Across Carquinez Straits at Crockett.		5/22/52 6/6/52	Bos Const. Co. Day Labor	Repair Timber Br. & Std. & Conc. Br., Grade & B.S.T. on Apps.	24,482
52-4TC14-P	Contra Costa	14	B	In Rodeo		4/15/52	Day Labor	Minor Contracts & D.L. Projects	*3,450
52-4TC36	Contra Costa	69	SPb	Intra. San Pablo Ave. with Broadway Ave.-Balboa		6/13/52	R. Gould & Son	Repair Br. with R.C.	1,549
53-4TC13	Contra Costa	75	H	On Standard Ave. Bet. Oil St. & Marine St.	0.6	5/29/52	Lee J. Immel	P.M.S.	6,000
52-4T11 52-4TC27-F	Contra Costa	75	Pit Pit,F,Ant	Bet. 1.0 Mi. S. of Pacheco & Monument. Bet. Railroad Ave. & Solari St. Bet. Railroad Ave. in Pittsburg & A St. in Antioch.	1.5 0.2 5.0	6/12/52 9/18/51 1/29/52	J. R. Arnstroung Day Labor Peter Kiewit Sons' Co.	Drainage	8,200
47T44	C.C. Son	75, 1, 104	WIC, B, A, B, C	See Sonoma County				Signals, Lights & Chnlz.	8,902
52-4T17	C.C. Nap	75, 107, 49	WIC,A,B	Main St. in Walnut Cr., Bet. Danville & S.P.R.R. S. of Walnut Cr. & Bet. Union Sta. & Yountville.		1/30/52	Day Labor	Grade & P.M.S.	276,785
52-4TC20	Contra Costa	107, 75	A,WIC,B	Bet. 3.5 Mi. S. of Danville & Concord (Por.)	3.6	10/19/51	J. R. Arnstroung	P.M.S. on Shldr.	67,689
52-4TC35	Contra Costa	107	A	At S.P.R.R. Crossing in Danville.	0.2	5/15/52	J. R. Arnstroung	Reconst. Base & Surf. Grade P.C.C., P.M.S., 3 R.C. OC's, 2 R.C. UC's & Std. UP.	8,500
52-1BC2	Del Norte	1	C, D, E	Various Locations Bet. 14.1 Mi. & 30.8 Mi. NE. of Crescent City (6 locations)	1.4	6/27/52	John Burman & Sons	Subseal	2,713,530
								Grade, P.M.S. & Sl. Cts., & Widen R.C. Br.	32,000
								Turnout Lanes, P.M.S.	352,688 13,052
								Minor Contracts & D.L. Projects	*\$4,500
								Widen, Grade & R.M.S.	208,015

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
53-1TC4	Del Norte	1	E	Bet. Oregon Mountain & Oregon State Line	1.8	6/9/52	Merced Fraser Co. & Mercer Fraser Gas Co., Inc.	P.M.S. & Widen R.C. Bridge	\$151,000
	Del Norte			Various Locations				Minor Contracts & D.L. Projects	*4,520
52-3TC24	E.D. Pla.	65	A, Aub, A	See Placer County					
52-3DC10	El Dorado	FAS 1099		Bet. Chiquita & 2.1 Mi. SE'ly.	2.1	4/29/52	C. W. Peterson	Grade & B.S.T. on I.B.M.	110,500
	El Dorado			Various Locations				Minor Contracts & D.L. Projects	*16,980
52-6TC4	Fresno	41	M, N	Bet. 5.8 Mi. S. of Merced Co. Line & 0.8 Mi. N. of Mendota	14.7	10/25/51	Thomas Const. Co.	Grade, P.M.S. on C.T.B. & Widen R.C. Br.	109,953
6T24	Fresno	41	Fre	At Ventura Ave. & S. First St.		6/29/51	Day Labor	Signals & Chnlz.	4,800
52-6T11	Fresno	125	Fre, C	Bet. Olive Ave. & Shields Ave.		1/2/52	Day Labor	Signs, Stripes, etc.	8,100
52-6TC6-P	Fresno	125	Fre, C	Bet. Olive Ave. & ¼ Mi. N. of Shields Ave. in Fresno	1.8	12/5/51	Gene Richards	Grade, P.M.S. on U.R.B. & Pump System	479,971
52-6TC8	Fresno	125	Fre, C	On Blackstone Ave., Bet. Olive Ave. & Shields Ave.		4/14/52	Westates Elec. Const. Co.	Signals & Lights	66,380
52-14DC10	Fre, Mad	FAS 560		Across San Joaquin Riv. at Friant		11/26/51	Thomas Const. Co.	R.C. Br.	80,100
52-6DC5	Fresno	FAS 809		On Fresno-Coalinga Rd., Bet. Coalinga-Mendota Rd. & Ford Ave.	3.9	9/5/51	Louis Biasotti & Son	Grade & B.S.T. on I.B.M.	148,000
	Fresno			Various Locations				Minor Contracts & D.L. Projects	*49,170
53-14TC7	Glenn	7	C	Across Stony Cr. About 0.8 Mi. N. of Orland		5/1/52	R. G. Clifford & C. O. Bodenhamer	Widen Conc. Br.	68,778
52-3DC11	Glenn	FAS 1121		Bet. State Rte. 7 & 4.6 Mi. E., About 4 Mi. S. of Willows	4.6	5/15/52	Lefever & Bing	I.B.M.	66,200
51-1TC10	Humboldt	1, 35	E, F, A	Bet. Robinson Ferry Br. & Alton Grade Crossing	4.4	11/1/50	Fredrickson Bros.	Grade, P.M.S. on C.T.B., Sbl. Br. & R.C. Br.	1,071,213
52-1TC5	Humboldt	1	E	Bet. 1 Mi. S. of Scotia Post Office & N. Scotia Br.	1.4	8/24/51	Fredrickson Bros.	Grade, P.M.S. on C.T.B. & R.C. U.C.	950,743

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
52-14TC7-F	Humboldt	1	Arc	Over Burns Freeway at 11th & 14th Sts.	---	6/20/51	Mercer, Fraser Co., & Mercer, Fraser Gas Co., Inc.	2 R.C. Brs. & P.M.S. on I.B.M. on Apps.	\$298,372
51-14TC29	Humboldt	20	B	Across N. Fork Mad Riv.	0.5	6/15/51	G. M. Carr, Bati Rocca, & John Burman & Sons	Sl. & R.C. Br. & Apps.	405,000
52-17T12	Humboldt	20	B	Bet. Mi. 0.00 & Mi. 1.20	1.2	10/ 5/51	Day Labor	Improve Roadbed	27,500
52-17T13	Humboldt	35	A, B	Bet. 1.25 Mi. E. of Alton & Bridgeville	---	4/ 1/52	Day Labor	Improve Drainage	40,000
1783	Humboldt	35	B, C, D	Bet. Van Duzen Riv. & Trinity Co. Line	2.1	3/ 7/51	Day Labor	Widen, Surf. & Oil	27,500
52-17C8	Humboldt	35	B	At First Crossing of Van Duzen Riv.	---	6/24/52	Mercer Fraser Co. & Mercer Fraser Gas Co., Inc.	Stockpile I.B.M.	20,000
---	Humboldt	---	---	Various Locations	---	---	---	Minor Contracts & D.L. Projects	*30,217
53-11VC3	Imperial	12	A, B	Bet. 1.5 Mi. W. of Coyote Wells & 0.5 Mi. W. of Plaster City	5.2	5/12/52	Marks Bros. Const. Co.	R.M.S. & Seal	57,984
52-14VC6	Imperial	12	C	Across New Riv., 0.5 Mi. W. of Seeley	0.7	10/19/51	R. P. Shea Co.	Sl. Br. & Apps.	366,299
53-11VC2	Imperial	26	Brw, H	Bet. S.C.L. of Brawley & 1.1 Mi. W. of Brawley	1.7	4/22/52	Basich Bros. Const. Co. & N. L. & R. L. Basich	Grade, P.M.S. & R.C. Br.	379,254
52-11V3	Imperial	27	A	Bet. E. Highline Canal & Jet. with Rte. 202	11.8	4/28/52	Day Labor	Grade & Surf. Shldrs.	40,000
53-11VC5	Imperial	27	A	Bet. E. Highline Canal & Jet. with Rte. 202	11.8	6/18/52	Basich Bros. Const. Co., N. L. & R. L. Basich	Resurf. with P.M.S.	155,726
---	Imperial	---	---	Various Locations	---	---	---	Minor Contracts & D.L. Projects	*17,975
53-9VC1	Inyo	23	G, H	Pors. Bet. Kern Co. Line & Dunnovin	17.6	4/ 1/52	Rice Bros., Inc.	Grade & P.M.S. on U.R.B., B.S.T. on Shldrs. & Sl. Ct.	141,212
53-9VC2	Inyo	23, 76	Bis, E, A	Bet. S.C.L. Bishop & Texaco Corners	1.5	5/12/52	G. W. Ellis Const. Co.	Widen & P.M.S.	159,613
52-9DC4	Inyo	FAS 1069	---	Bet. Glacier Lodge & 4 Mi. Wly. of Big Pine	6.4	6/23/52	Ball & Simpson	Grade & R.M.S.	214,400
---	Inyo	---	---	Various Locations	---	---	---	Minor Contracts & D.L. Projects	*2,450
7V173	Ker, L.A	4	A, D, J	See Los Angeles County	---	---	---	Asphalt Subsealing	8,650
52-6V10	Kern	4	A	Bet. Seale House & Glen Oak	---	3/14/52	Day Labor	---	---

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
52-6VC5	Kern	4	F	Bet. McFarland & Delano UP.	5.5	12/ 6/51	Griffith Co.	Grade, P.C.C. & P.M.S.	\$884,070
52-6VC6	Kern	4	F	At Intra. State Rte. 4 with Sherwood Ave., Kern Ave. & Perkins Ave. in McFarland		1/18/52	Howard Ele. Co.	Signals & Lights	25,899
52-6V11	Kern	57	F, G	Bet. Kern Riv. Canyon & Democrat Springs		5/29/52	Day Labor	Guide Posts	6,600
52-6VC4-Y	Kern	57	I	Bet. 0.5 Mi. S. of Isabella & 3.0 Mi. W. of Weldon	8.0	11/13/51	Bail & Simpson	Grade & B.S.T. on I.B.M.	813,329
53-9VC3	Kern	58	A	Bet. 0.8 Mi. & 4.3 Mi. E. of Mojave	3.5	5/16/52	Oilfields Truck. Co. & Phoenix Const. Co., Inc.	Grade & P.M.S.	168,805
51-6VC13-Y	Kern	142	F	Bet. 4.5 Mi. NW. of Isabella & Isabella Dam Site	4.6	6/30/51	Hess Const. Co., Inc.	Grade, B.S.T. on I.B.M., & R.C. & Std. Br.	808,955
52-6DC4-P	Kern	FAS 881		On Airport Ave. Bet. Rte. 4 & Norris Rd.	1.2	8/ 9/51	Griffith Co.	Grade, P.M.S. on U.R.B. & Std. UP.	431,000
52-6DC6	Kern	FAS 1161 575		On Allen Rd. & Santa Fe Way, Bet. Rosedale Ave. & State Rte. 139	10.3	2/27/52	Madonna Const. Co.	Grade & R.M.S. & B.T.S. on I.B.M.	382,770
53-6TC1	Kern	134	A	Various Locations Bet. E.C.L. of Corcoran & A.T. & S.F. Crossing (Tulare Branch)				Minor Contracts & D.L. Projects	*53,420
52-6TC7-P	Kin, Tul	135	B, A	Bet. 1 Mi. N. of Corcoran & 0.7 Mi. S. of Kings-Tulare Co. Line		5/15/52	Griffith Co.	Resurf. with P.M.S. & Widen 2 Conc. Bds.	55,835
52-6TC9-P	Kin, Tul	135	B, A	Bet. 1 Mi. N. of Corcoran & 0.7 Mi. S. of Tulare Co. Line	4.2	4/24/52 5/12/52	Baum Const. Co. R. O. Ferguson Co.	Grade & P.M.S. Lights	421,600 5,556
53-1TC1	Lake	15	B	Various Locations Across Lucerne Cr. & Deer Cr., About 8.5 Mi. & 9 Mi. E. of Upper Lake		4/ 1/52	A. A. Edmondson	Minor Contracts & D.L. Projects	*2,050
53-1TC3-PP	Lake	49	B, C	Bet. 0.4 Mi. S. of Lower Lake & 0.3 Mi. N. of Cache Cr.	1.7	5/12/52	Arthur B. Siri, Inc.	2 R.C. Culvs.	23,070
52-1TC6	Lake	89	B	Bet. 5.2 Mi. & 5.5 Mi. N. of Middletown	0.3	8/23/51	Arthur B. Siri, Inc.	Grade, Base & Sl. Ct.	195,623
52-2TC1	Las, Plu	21	A, G	Various Locations See Plumas County				Grade & R.M.S. on I.B.M.	40,574
								Minor Contracts & D.L. Projects	*15,580

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
52-2TC3-F	Lassen	73	D	Bet. 4.5 & 6.5 Mi. N. of Secret Valley	2.1	1/15/52	A. Teichert & Son, Inc.	Grade & R.M.S. on U.R.B.	\$332,265
51-2DC1-P	Lassen	FAS 988		Bet. Grasshopper Valley & Hayden Hill Rd.	12.8	9/26/50	W. H. O'Hair Co.	Grade & R.M.S.	252,649
	Lassen			Various Locations				Minor Contracts & D.L. Projects	*2,350
51-7VC2-F	Los Angeles	2, 166	D, A	Bet. Eastman Ave. & 0.1 Mi. W'ly. of Atlantic Blvd.	1.1	11/27/50	Winston Bros. Co.	Grade, P.C.C. on I.B.M. & 2 R.C. OC's, & 1 R.C. Ped. UC.	1,183,816
51-7VC48	Los Angeles	2, 166	D, A	Bet. Eastman Ave. & La Verne Ave. & Bet. Eastland Ave. & Todd Ave.		4/25/51	Fischbach & Moore of Calif., Inc.	Lights & Signs	73,637
1-7VC159	Los Angeles	2	LA	Bet. Western Ave. & Hobart Blvd.		6/29/50	J. E. Haddock, Ltd.	Pump Plant & Storm Drains	132,255
51-14VC19-F	Los Angeles	2	LA	Bet. Calhuenaga Blvd. & Gower St.	0.6	5/31/51	Winston Bros. Co.	Grade, P.C.C. on I.B.M. & 3 R.C. UC's, 1 R.C. OC, 1 R.C. Sep.	1,750,318
51-14VC14-F	Los Angeles	2	LA	At Hollywood Blvd.		2/20/51	Fredertksen & Kasler	R.C. OC.	349,402
7V178	Los Angeles	2	LA	Bet. Alameda & Aliso Sts. & Los Angeles Riv.		5/21/51	Day Labor	Storm Drains	1,148,700
51-14VC21-F	Los Angeles	2	LA	At Brounson Ave. & at Gower St.		6/20/51	George W. Peterson & Jack W. Baker		
52-7VC15	Los Angeles	2	LA	On Hollywood Frwy. Bet. Calhuenaga Blvd. & Gower St.		7/27/51	C. D. Draucker, Inc.	2 R.C. Brs.	964,982
52-7VC24-F	Los Angeles	2	LA	On Hollywood Frwy., Bet. Hollywood Blvd. & Western Ave.	0.7	12/28/51	Webb & White	Lights & Signs	38,435
52-7VC27	Los Angeles	2	LA	On Hollywood Frwy., Bet. Hollywood Blvd. & Western Ave.				Grade, P.C.C. on C.T.S., Ret. Walls & Pump Plant.	1,461,648
52-7VC31-Y	Los Angeles	2	LA	At Intra. Franklin Ave. with Vine St. & Argyle Ave.		1/15/52	Westates Elcl. Const. Co.	Lights & Signs	62,046
52-7VC32-F	Los Angeles	2	LA	On Hollywood Frwy., Bet. Mulholland Dr. & Calhuenaga Blvd. & Bet. Gower St. & Hollywood Blvd.		2/ 6/52	Ed. Seymour	Lights	3,515
	Los Angeles				1.4	2/14/52	Bongiovanni Const. Co.	Grade, P.C.C. on C.T.S., 3 R.C. Brs., R.C. Ped. UC. & Extend 2 R.C. Ped. UC's.	2,497,381
52-7VC33	Los Angeles	2	LA	On Hollywood Frwy., Bet. Mulholland Dr. & Calhuenaga Blvd. & Bet. Gower St. & Hollywood Blvd.		3/12/52	Elc. & Mach. Serv., Inc.	Lights & Signs	150,303
52-14VC17-F	Los Angeles	2	LA	On Santa Ana Frwy., Bet. Los Angeles St. & Lyon St.	0.3	3/24/52	Geo. W. Peterson & Jack W. Baker	Grade, P.C.C. & A.C., 2 R.C. UP's & 3 R.C. Retaining Walls.	1,463,633
52-7VC36	Los Angeles	2	LA	On Santa Ana Frwy., Bet. Los Angeles St. & Lyon St.		4/ 1/52	Eis-Hokin & Galvan, Inc.	Lights & Signs	37,527
52-7V35	Los Angeles	2	LA	Bet. Mulholland Dr. & Hollywood Blvd.		4/21/52	Day Labor	Signs, Stripe & Markings	15,000
52-7VC42	Los Angeles	2	LA	Bet. Virginia Ave. & Los Angeles St.	2.0	6/27/52	Henry C. Soto Corp.	Roadside Development	111,441
7V173	L.A. Ker.	4	J, D, A	Bet. 2.5 Mi. S. of Jet. Rte. 59 & Fort Tejon	11.4	4/13/51	Day Labor	Signs, Stripes & Safety Devices	5,800
7RVV4	Los Angeles	4	J	Bet. Alamos Cr. & Rte. 59		5/10/51	Day Labor	Crossovers	15,000
52-7VC8	Los Angeles	4	Brb	Bet. Brighton St. & Cohasset St.	1.1	5/19/52	Schroeder & Co.	A.C.	78,792

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
51-7VC36-F	Los Angeles	4	LA, F	Bet. N.C.L. of Los Angeles & Pico Canyon	5.1	2/ 5/51	Claude Fisher Co., Ltd. (A. Teichert, & Son, Inc. Completing)	Grade & P.C.C.	\$533,626
7V149	Los Angeles	9	Pas	Bet. Santa Anita Ave. & Sierra Madre Villa		7/ 1/49	Day Labor	Widen, Pave, Struets. & Signals.	92,621
52-7V18	Los Angeles	26, 77	B, A	On Garvey Ave. at Valley Blvd		12/ 5/51	Day Labor	Signals & Chnlz.	6,700
51-7VC54	Los Angeles	26	D LA, Alh	Bet. Helen Drive & 8th St.		6/28/51	Ele. & Mach. Serv., Inc.	Lights & Signs	91,899
51-14VC20	Los Angeles	26	D, LA	On Murphy St. Bet. Eastern Ave. & Ramona Freeway	0.5	5/31/51	J. E. Haddock, Ltd.	P.M.S. on I.B.M., Std. Br. & Ramp.	207,398
52-7VC30-F	Los Angeles	26	E	On Ramona Frwy., Bet. 0.1 Mi. E. of Jackson Ave. & Rosemead Blvd. (Por.)	1.7	1/28/52	Griffith Co.	Grade, P.C.C., P.M.S., Std. Br., R.C. & Std. Br., 3 R.C. & Std. UC's & UP's, & R.C. Grade Sep. Signs & Stripes	2,534,549 9,800
52-7V30	Los Angeles	26	E	Bet. Jackson Ave. & Rosemead Blvd.		3/18/52	Day Labor		
51-7VC38-F	Los Angeles	26	Alh, D, LA	Bet. 0.2 Mi. E. of Helen Drive & Hellman Ave.	1.5	2/ 9/51	J. E. Haddock, Ltd.	Grade, P.C.C. on C.T.S., P.M.S. on I.B.M., Std. UP. & Ped. OC., R.C.	1,957,924
51-7VC50-F	Los Angeles	26	Alh	Bet. Hellman Ave. & 8th St.	0.9	6/28/51	Griffith Co.	Grade, P.C.C. on C.T.S., P.M.S. on I.B.M., Std. Ped. OC., & 2 R.C. UC's.	1,422,107
52-7VC19	Los Angeles	26	Alh, MonP, E	On Ramona Frwy., Bet. 8th St. & 0.1 Mi. E. of Jackson Ave.	1.7	9/25/51	Griffith Co.	Grade, P.C.C., P.M.S., R.C. Ped. UC, 3 R.C. & Std. UC's & UP's, & 1 R.C. & Std. OH.	2,598,007 86,114 6,400
52-14VC13	Los Angeles	26	Alh	Over Ramona Frwy. & P.E. Ry. Tracks at Campbell Ave.		11/27/51	Griffith Co.	Std. & R.C. Ped. OC.	
52-7V27	Los Angeles	26	Alh	Bet. Eighth St. & Jackson Ave.		2/26/52	Day Labor	Signs, Stripes, Etc.	
52-14VC14	Los Angeles	26	LA	Over Ramona Frwy. & P.E. Ry. Tracks at Evergreen Ave.		1/ 4/52	J. E. Haddock Ltd.	Std. & R.C. Ped. OC.	48,886
52-7V34	Los Angeles	26	MonP	Bet. Hitchcock Ave. & New Ave.		4/15/52	Day Labor	Safety Lights	7,005
53-14VC5-F	Los Angeles	26	Pom, Cla	On Ramona Freeway	0.5	6/ 4/52	R. M. Price Co.	Widen, A.C., & 7 R.C. Brs.	1,280,222
52-7VC18	Los Angeles	59	H, I, J	Bet. Palmdale & 2 Mi. E. of Llano (Por.)	3.5	9/15/51	Osborn Co.	Grade, B.S.T. & R.C. Br.	204,179
52-7VC9	Los Angeles	59	J	Bet. Palmdale & Old Nadeau Rd.	1.4	5/19/52	E. C. Young	Grade & P.M.S.	103,642
52-7V12	Los Angeles	60	B	At Sta. 204+57		7/25/51	Day Labor	Culvert.	6,250

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
7V177	Los Angeles	60	LBch	Various Locations		5/21/51	Day Labor	Signals & Lights	\$14,500
52-7VC43	Los Angeles	60	RdoB	Intrs. Pacific Coast Hwy. with Elena Ave. & Ave. H		6/27/52	Elc. & Mach. Serv., Inc.	Signals & Lights	8,186
52-7V17	Los Angeles	60	Tor	At Newton St.		12/ 5/51	Day Labor	Channelization	9,500
7V180	Los Angeles	61	C, D	Angeles Crest Hwy.		6/29/50	Day Labor	Grade	423,000
52-7VC3	Los Angeles	77	SGb	Bet. W.C.L. & E.C.L.	1.2	4/ 1/52	Vido Kovacevich Co.	Widen & P.M.S. on U.R.B.	61,814
52-7V14	Los Angeles	158,164	B, A	On Sepulveda Blvd. at Centinela Ave.		10/ 5/51	Day Labor	Revise Signals & Chnlz.	7,200
52-7VC26-P	Los Angeles	161	Mnro	On Huntington Dr., Bet. Shamrock Ave. & Mountain Ave.	0.3	1/ 7/52	Warren Southwest, Inc.	Grade, P.M.S. & Widen R.C. Br. & Apps.	44,445
51-14VC16	Los Angeles	161	Pas	Bet. San Rafael Ave. & Orange Grove Ave.	0.7	3/16/51	Guy F. Atkinson Co.	3 R.C. Brs. & Apps. & Alter R.C. Br.	3,599,873
52-7V16	Los Angeles	161	Pas	On Colorado St. Br.		12/ 5/51	Day Labor	Stripes & Signals	12,900
52-14VC3	Los Angeles	161	Pas	Colorado Frwy., Bet. Orange Grove Ave. & Holly St.	0.3	5/ 5/52	Guy F. Atkinson Co.	Grade, P.M.S. & R.C. OC	257,753
52-7V24	Los Angeles	162	SMca	At Cloverfield Blvd. & at 26th St.		1/15/52	Day Labor	Signals & Lights	6,000
52-7VC22	Los Angeles	164	Tor, RdoB, A, Haw	On Hawthorne Ave. Bet. 174th St. & 137th St.	2.5	10/16/51	Oswald Bros. Co.	Grade & P.M.S.	559,053
51-14VC12-F 7V168	Los Angeles	165 165,205	LA LA, SPas	At 5th St. & at 6th St.		12/ 8/50	Winston Bros. Co.	5 R.C. OC's & 2 R.C. Ped. UC's	1,010,780
51-14VC17-F	Los Angeles	165	Pas	Bet. College St. & Glenarm St.		1/30/51	Day Labor	Signals	6,000
52-7VC10-F	Los Angeles	165	LA	At Wilshire Blvd.		3/27/51	Webb & White	R.C. Bridge	382,757
52-7VC12-P	Los Angeles	165	LA	Bet. 4th St. & Temple St.	0.6	6/14/51	Webb & White	Grade & P.C.C.	710,243
52-7V13	Los Angeles	165	LA	Bet. Temple St. & 3rd St. & Bet. Grand Ave. & Los Angeles St.		6/28/51	Els-Hokin & Galvan, Inc.	Lights & Signs	114,516
52-14VC8-F	Los Angeles	165	LA	Bet. Temple St. & 4th St.		9/24/51	Day Labor	Signs & Strips	7,000
53-14VC4-F	Los Angeles	165,173	LA	On Harbor Frwy., at 7th, 8th, & 9th Sts.		10/19/51	Oberg Bros. Const. Co.	R.C. OC, 3 R.C. UC's & 2 R.C. Ramp Seps.	1,227,536
51-7VC17-F	Los Angeles	166	A	On Harbor Frwy., at Olympic Blvd.	0.1	5/20/52	Oberg Bros. Const. Co.	R.C. Br. & Reconst. City Sts.	352,340
	Los Angeles			Bet. Augusta Ave. & 0.1 Mi. E'ly of Rio Hondo.	2.3	9/29/50	United Conc. Pipe Corp. & Ralph A. Bell	Grade, P.C.C. on C.T.S., P.M.S. on U.R.B. & 3 R.C. Struds. (2 Ped OC's, 1 UC. & 2 OC's)	1,741,634

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
51-7VC41-F	Los Angeles	166	A	Bet. 0.2 Mi. SE'y of Washington Blvd. & Todd Ave.	1.5	3/ 9/51	United Conc. Pipe Corp., Ralph A. Bell, B. J. Ukropina, T. P. Polich, & Steve Kral	Grade, P.C.C. on C.T.S. over I.B.M. P.M.S. on U.R.B., R.C. UC. & Ped. OC., & Std. UP.	\$1,546,151
52-7VC17-F	Los Angeles	166	A	On Santa Ana Frwy., Bet. Todd Ave. & 0.2 Mi. SE'y of Lakewood Blvd.	2.0	8/20/51	United Conc. Pipe Corp.	Grade, P.C.C. on C.T.S., R.C. & Std. Br., R.C. Ped. UC., Sep., UC., & OH.	2,701,191
52-7VC21	Los Angeles	166	A	On Santa Ana Frwy. Bet. Todd Ave. & Lakewood Blvd.		10/ 8/51	Fischbach & Moore, Inc.	Signals, Lights & Signs	120,607
52-7VC26	Los Angeles	166	A	Bet. Todd Ave. & Lakewood Blvd.		2/13/52	Day Labor	Signs & Stripes	8,500
53-14VC2-F	Los Angeles	166	A	On Santa Ana Frwy. Across San Gabriel Riv., 2 Mi. E. of Downey		4/18/52	United Conc. Pipe Corp.	R.C. Br. & App. Emb.	504,471
52-14VC15	Los Angeles	167	A	On L.A. Riv. Frwy., Across Del Amo Blvd. & Compton Cr. About 0.2 Mi. W. of Long Beach C.L.		1/15/52	R. M. Price	R.C. UC., & R.C. Br. & Apps.	541,124
53-7VC5	Los Angeles	167	A, MonP	Bet. Anaheim-Telegraph Rd. & Garvey Ave.	4.1	4/25/52	Vido Kovacevich	Widen & P.M.S.	191,506
52-14VC20-F	Los Angeles	167	A	On Los Angeles Riv. Frwy., Bet. 0.2 Mi. S. of Dominguez St. & Del Amo Blvd.	0.7	5/26/52	Webb & White	Grade, P.C.C. on C.T.S. & 2 Std. UPs.	1,428,978
52-7VC11	Los Angeles	167, 174	A, B	Intra-Atlantic Blvd. with Bandini Blvd. & with Sheila St. & Firestone Blvd. with Pioneer Blvd.		6/11/52	Westates Elcd. Const. Co.	Signals & Lights.	39,856
7V170	Los Angeles	167	LBch	Vicinity of Willow St.		3/12/51	Day Labor	Drainage	31,111
7V171	Los Angeles	167	LBch	Vicinity of State St.		3/14/51	Day Labor	Pump & Drainage	39,000
51-7VC49-F	Los Angeles	167	LBch	Bet. Rte. 60 & 22nd St.	2.5	5/31/51	Griffith Co.	Grade, P.C.C. on C.T.S. over I.B.M., P.M.S. on U.R.B. over I.B.M., & R.C. Grade Sep.	1,507,323
51-7VC55	Los Angeles	167, 175	LBch	Bet. State St. & 22nd St.		6/28/51	Fischbach & Moore, Inc.	Lights & Signs	71,938
52-14VC18-F	Los Angeles	167, 175	LBch	Across Los Angeles Riv. Frwy. at Artesia St.	0.3	4/18/52	J. E. Haddock Ltd.	R.C. O.C. & Apps.	432,270
7V176	Los Angeles	167	SGt	Across Los Angeles Riv., Bet. Imperial Hwy. & Firestone Bvd.		5/15/51	Day Labor	Br. Substructure	189,000
52-7VC23	Los Angeles	168	A	At Intra. of Lakewood Blvd. & Gardendale St.		1/11/52	Day Labor	Channelization	11,000
52-7VC38	Los Angeles	168	A	On Lakewood Blvd. Across Flood Control Channel at Del Amo Blvd.		4/18/52	Conc. Const. Serv., Co.	R.C. Culv.	53,353
53-7VC10	Los Angeles	175	B	On Artesia Ave. Bet. E.C.L. of Long Beach & Palo Verde Ave.	2.5	6/ 5/52	Warren Southwest Inc.	Grade, P.M.S. & Base	398,510

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allo-
52-14DC5	Los Angeles	FAS 636		Across San Gabriel Riv., on Imperial Hwy.		8/23/51	Chas. MacClosky Co.	R.C. Br.	\$228,500
51-14DC11-P	Los Angeles	FAS 737		Across San Gabriel Riv., on Orangethorpe Ave.		6/28/51	Oberg & Cook	R.C. Bridge	215,000
52-14DC2	Los Angeles	FAS 835		Across San Gabriel Riv., on Center St.		8/ 3/51	Lars Oberg	R.C. Br.	229,000
52-14DC6-P	Los Angeles	FAS 835		Across Rio Hondo, on Florence Ave.		8/30/51	E. G. Perham	Stl. & R.C. Br.	288,000
52-14DC3	Los Angeles	FAS 838		Across Rio Hondo, on Beverly Blvd.		8/ 3/51	John Strona	R.C. & Stl. Br.	396,000
	Los Angeles			Various Locations				Minor Contracts & D.L. Projects	*60,873
53-6TC2	Madera	32	A	Bet. 3.5 Mi. & 10.8 Mi. E. of Merced Co. Line	7.2	5/23/52	Volpa Bros.	Widen & P.M.S.	240,261
52-14DC10	Mad. Fre.	FAS 560		See Fresno County					
	Madera			Various Locations				Minor Contracts & D.L. Projects	*11,516
51-4TC26-F	Marin	1	A	Bet. Ignacio & Forbes OH.	5.5	1/ 9/51	Granite Const. Co.	Grade, P.M.S. on C.T.B., 2 R.C. Brs. Repair Stl. OH., & Signals	1,155,268
53-4TC7	Marin	1	A	At San Pedro Rd. UP. near N.C.L. of San Rafael	0.9	4/14/52	Brown-Ely Co. Contractors	Grade, P.C.C. & P.M.S., & R.C. UC.	200,025
52-4TC16	Marin	1, 56	C, D, A	Bet. 0.6 Mi. N. of Alto Inters. & Waldo (Por.)	1.4	9/25/51	Granite Const. Co.	P.M.S. on C.T.B., C.R.B. on Shldrs. & Stl. Cts.	214,377
52-4TC15-F	Marin	1	SRf, C	Bet. Myrtle Ave. in San Rafael & Calif. Park OH.	2.0	9/21/51	A. G. Raish Co. & Lew Jones Const. Co.	Grade, P.M.S., Lights, R.C. Br., & Widen R.C. Br.	1,139,996
53-4TC8	Marin	56	A	At Dolans Corner About 2.5 Mi. NW'ly. of Sausalito	0.4	6/ 4/52	Brown-Ely Co. Contractors	P.M.S. & C.R.B.	59,982
52-4T15	Marin	69	A	Bet. Sta. 76+41 & 99+95		11/ 5/51	Day Labor	Bank Protection	77,000
52-4DC4	Marin	FAS 879		On Pt. Reyes Sta.-Novato Rd., Bet. 10 Mi. E. of Pt. Reyes Sta. & 6.2 Mi. W. of Novato	2.3	8/24/51	A. G. Raish Co.	Grade & P.M.S. on I.B.M.	105,000
	Marin			Various Locations				Minor Contracts & D.L. Projects	*12,765
52-10TC10	Mariposa	18	D	Bet. 1.9 Mi. N. of Mariposa & Acorn Inn	3.3	10/19/51	Eaton & Smith	P.M.S. on U.R.B. & Stl. Cts.	493,389

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
51-10BC1-F	Mariposa	18	E, F, G, H	Bet. Briceburg & Yosemite Nat'l Park	17.7	6/28/51	Piombo Const. Co.	P.M.S.	\$1,442,703
10T75	Mariposa	110	B	Bet. Tuolumne Co. Line & Coulterville	9.0	7/1/49	Day Labor	Grade & Pen. Tr.	40,000
10T80	Mps, Tuo	110	B, A	See Tuolumne County					
	Mariposa			Various Locations				Minor Contracts & D.L. Projects	*3,325
52-1TC7	Mendocino	1	E	Bet. Northwestern Pacific UP. & Eleven Oaks	2.0	6/27/52	Pike & Hill, Carey Bros. & Bailey	Grade & P.M.S. on C.T.B.	259,473
53-1TC5	Mendocino	1	H	At Ten Mile Cr. About 3 Mi. S. of Laytonville	0.3	6/11/52	Pike & Hill, Carey Bros. & Bailey	Grade & R.M.S.	66,035
53-1TC6	Mendocino	1	I	At Battlesnake Cr. About 1 Mi. S. of Cummings Post Office	0.5	6/5/52	Eaton & Smith	R.C. Culv., Fill, & R.M.S.	570,006
1T82	Mendocino	1	J	At Lane Flat		3/9/51	Day Labor	Replace Conc. Culv.	20,650
53-14TC5	Mendocino	48	B	Across Indian Cr. About 5 Mi. NW. of Boonville	0.2	4/18/52	Tausocean Engr. Co.	R.C. Br. & Apps.	125,767
53-1TC2	Mendocino	48	B, A	Bet. Boonville & 0.9 Mi. E. of Shearing Cr.	1.3	4/29/52	Arthur B. Siri, Inc.	Grade & R.M.S.	140,631
52-1T14	Mendocino	56	C, D	Bet. Mallo Pass & Navarro Riv.		4/11/52	Day Labor	Log Cribs, Widen Roadbed & Improve Drainage	17,150
52-1DC3	Mendocino	FAS 980		On Ukiah-Boonville Rd., Bet. 2.9 Mi. & 4.8 Mi. W. of State Hwy. Rte. 1	1.9	5/23/52	C. V. Kenworthy	Grade	148,200
52-1DC2	Mendocino	FAS 982		On Willis-Ft. Bragg Rd., Bet. 10 Mi. W. of Willis & 6.9 Mi. W. of Willis	3.1	4/23/52	Macal Improvement Co., Inc.	Grade	107,700
	Mendocino			Various Locations				Minor Contracts & D.L. Projects	*91,878
52-10TC4	Mer, Sta	4	A, Mer, C, A	Bet. Madera Co. Line & Keyes	23.4	7/19/51	Richard J. Repsher & Sons	Protective Screen Planting	36,559
52-10TC17	Merced	4	A, Mer	Bet. 5.6 Mi. S. of Merced & Merced	5.6	6/25/52	Fredrickson & Watson Const. Co.	P.M.S. on U.R.B.	333,078
53-14TC8	Merced	4	D	Across Merced Riv. About 1.2 Mi. N. of Livingston		5/13/52	C. K. Moseman	Widen Slt. Br.	416,109
52-14TC25	Merced	123	B	Across Merced Riv. at Cox Ferry Abl. 12 Mi. N. of Merced	0.6	6/19/52	Tumblin Co.	R.C. Br. & Grade & P.M.S. on Apps.	204,396

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
52-10DC5	Merced	FAS 912		On Santa Fe Drive Bet. Stanislaus Co. Line & El Capitan Way	5.9	9/18/51	Baum Const. Co.	Grade & R.M.S. on U.R.B.	\$85,500
	Merced			Various Locations				Minor Contracts & D.L. Projects	*5,775
52-2T11	Modoc	73	A, B	Bet. Rte. 28 & Oregon State Line	10.4	7/ 2/51	Day Labor	Surface	50,000
51-2DC3	Modoc	FAS 513		Bet. 4 Mi. N. of Lake City & Fort Bidwell	12.5	5/ 9/51	Tyson & Watters	Grade & R.M.S.	171,500
52-2DC2	Modoc	FAS 513		Bet. Lassen Co. Line & Eagleville	9.8	6/20/52	Harns Bros.	P.M.S.	148,500
52-9V10	Mono	40	A	Across Warren Creek		7/ 2/51	Day Labor	Replace Br. with Culv. & Fill	7,000
52-9VC3	Mono	76	B	Bet. 5.5 Mi. & 2.9 Mi. S. of Benton Sta.	2.8	4/ 2/51	Anderson Co.	Grade, R.M.S. on I.B.M.	81,687
53-9VC4	Mono	95	A	Bet. 4.4 Mi. & 5.0 Mi. N. of Coleville	0.6	5/15/52	Rob't. C. Downer	Grade & B.S.T.	38,549
	Mono			Various Locations				Minor Contracts & D.L. Projects	*48,540
53-5TC1-F	Monterey	2	B	Bet. Chualar & Spence UP	5.2	4/14/52	Rice Bros. Inc.	P.M.S.	407,031
52-5TC5-F	Monterey	2	Sal, K	Bet. Alisal Rd. in Salinas & 0.5 Mi. NW'ly. of N. Main St.	1.6	6/18/52	Dan Caputo & Edward Keeble	Grade, P.C.C., P.M.S. & 2 R.C. Brs.	1,050,247
5724	Mon, SBH	119	A, A	Bet. Priest Valley & Lonoak	16.0	1/ 9/51	Day Labor	Pen. Tr.	6,486
	Monterey			Various Locations				Minor Contracts & D.L. Projects	*27,830
52-4TC17	Napa	49	A	Bet. Lake Co. Line & 1.5 Mi. N. of Calistoga	7.2	9/19/51	Munn & Perkins	P.M.S. on U.R.B.	241,258
52-14TC18	Napa	49	Cstg	Across Napa Riv., on Lincoln Ave.		3/ 6/52	E. H. Peterson & Son	Widen R.C. Br. & Apps.	69,239
	Napa			Various Locations				Minor Contracts & D.L. Projects	*21,585
52-3TC6	Nevada	37	C	Bet. Donner Summit & Donner Lake	0.8	6/15/51	Harns Bros.	Grade & P.M.S.	140,200
52-3BC1-F	Nevada	38	A, B	Bet. Flycatcher's & Mystic (Por.)	1.3	7/16/51	Harns Bros.	Restore Rdwy., & P.M.S. on C.R.B.	325,467
	Nevada			Various Locations				Minor Contracts & D.L. Projects	*6,100
52-7VC14	Orange	2, 171	SA, C, SA	On Santa Ana Freeway, Bet. Broadway & First St.		8/ 3/51	Westates Eld. Const. Co.	Lights & Signs	108,392
52-7V32	Orange	2, 174	SA, C	Bet. Broadway & First St.		4/15/52	Day Labor	Signs, Stripes & Markings	9,700

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
53-7VC6	Orange	64	A, B	On Ortega Hwy. Bet. Zaza Cr. & Fernwood Cr. (Por.)		4/25/52	Arthur A. Johnson	Reconst. 8 Cattlepasses with C.M.P.	\$93,015
52-7VC20	Orange	171	B	On Stanton Ave., Bet. Garden Grove Ave. & Lincoln Ave.	4.0	9/14/51	Roland T. Reynolds	Grade, P.M.S. on U.R.B. on I.S.M., & Sl. Cts.	462,628
53-7VC7	Orange	171	HndB, A	Bet. Rte. 60 & 0.2 Mi. N. of Garfield Ave.	2.8	5/28/52	Cox Bros. Const. Co.	Grade & P.M.S.	387,402
52-7VC37	Orange	174, 2	A, D	On Santa Ana Freeway, Bet. 0.25 Mi. W'ly. of Los Angeles St. & Orangewood Ave.	1.2	4/ 1/52	Webb & White	Grade, P.C.C., P.M.S., R.C. OC. & R.C. Grade Sep.	846,102
51-14VC22-F	Orange	174, 2	SA, C	Bet. Broadway in Santa Ana & 1st St.	2.8	6/22/51	Winston Bros. Co.	Grade, P.C.C. on C.T.S. & 2 R.C. U.C.s, 2 R.C. OC.s, R.C. Ped. UC., Sl. OC. & Std. UP.	2,656,258
52-7VC25	Orange	185	LgnB, A	On Laguna Canyon Rd. Bet. Forest Ave. & 0.2 Mi. N. of Canyon Acres Dr.	0.9	1/ 7/52	Nappe Const. Co., Inc.	Grade & P.M.S. on U.R.B.	291,208
	Orange			Various Locations				Minor Contracts & D.L. Projects	*8,500
53-7VC1	Pla, Sac	3	A, B, A	See Sacramento County					
53-7VC2-P	Placer	3, 17	Rav	On Vernon St. at Riverside Ave.-Douglas St., Judah St., Grant St. & Lincoln St.		5/15/52	R. Gould & Son	Signals, Lights & Chnlz.	22,640
53-7VC5	Placer	37	A	Bet. one Mi. E. of Auburn & one Mi. W. of Applegate	6.1	6/23/52	Howard B. Folsom	Seal Coat	20,548
52-3T11	Placer	38	A	Across Madden Cr.		11/ 5/51	Day Labor	Culvert	13,000
52-3TC24	Pla, E.D.	65	Aub, A, A	Bet. 0.4 Mi. W. of Auburn City Limit & 1.3 Mi. S. of N. F.E. American Riv.	2.2	6/19/52	C. W. Peterson	Grade, C.T.B. & Sl. Ct.	191,160
	Placer			Various Locations				Minor Contracts & D.L. Projects	*9,400
53-2TC1	Plu, Las	21	G, A	Bet. Beckwourth Pass & Rte. 29	4.2	4/14/52	Eaton & Smith	Grade, P.M.S. on C.T.B. & Sl. OH.	439,552
52-2DC1	Plumas	FAS 1062		At Indian Cr. Br. about 0.8 Mi. S. of Crescent Mills	0.6	8/28/51	M. A. Jenkins & R. E. Hertel	Grade, R.M.S. on C.R.B. & R.C. Br.	188,000
	Plumas			Various Locations				Minor Contracts & D.L. Projects	*10,000
52-8VC17	Riverside	19	A	At Intra. Mission Blvd. with Bloomington Blvd.-Nakoma Ave.		3/21/52	Paul R. Gardner	Signals, Lights & Chnlz.	17,474

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
52-8VC5-F	Riverside	26	C, D	Bet. 0.6 Mi. W. of Rte. 187 & 1.2 Mi. E. of Whitewater	3.9	5/31/51	Basich Bros. Const. Co., & N. L. Basich & R. L. Basich	Grade, P.M.S. on C.T.B. & 2 R.C. Brs.	\$1120,771
8V38	Riv. SBD	26	Bau, B, A	See San Bernardino County					
52-8VC6-P	Riverside	43	Riv	Intrs. of Magnolia Ave. with Arlington Ave.-Palm Ave.		6/11/52	Paul R. Gardner	Signals & Chnlz.	13,246
52-8VC22	Riv. SBD	43	Riv, C, F	Bet. Russell St. & San Bernardino Co. Line	2.3	6/27/52	Henry C. Solo Corp.	Planting & Watering System	37,466
53-11VC4	Riverside	64	H, I, B, C, D	Bet. Indio & Black Butte	66.1	5/ 5/52	Basich Bros. Const. Co., N. L. & R. L. Basich	R.M.S. & Seal	209,000
52-8VC5	Riverside	77, 193	Cor	In Corona Bet. Ontario Ave. & N.C.L.	2.7	5/13/52	A. Teichert & Son, Inc.	Resurf. with P.M.S.	80,454
53-8VC4	Riverside	78	A	At Lemay Cr. & Rockhaven Cr. near Aguanga		5/ 5/52	E. G. Perlman	R.C. Cattlepass & Pipe Culv.	22,132
52-8VC13-F	Riverside	78	C	Bet. Antelope Rd. & Rte. 64	10.5	9/28/51	E. L. Yeager Co.	Grade & P.M.S. on I.B.M.	783,120
52-8V16	Riverside	78	C	Bet. Antelope Rd. & Rte. 64	10.4	6/20/52	Day Labor	Maintain Co. Rd. for Detour	6,000
52-14DC4-P	Riverside	FAS 1177		Across Santa Ana Riv., on Crestmore Rd., near Riverside		8/14/51	C. B. Tuttle Co.	Steel Br.	281,500
	Riverside			Various Locations				Minor Contracts & D.L. Projects	*25,137
52-3TC21	Sacramento	3	B	At Intrs. of Auburn Blvd. with Fulton Ave. & with Watt Ave.		4/21/52	A. Teichert & Son, Inc.	Chnlz.	26,842
53-3TC1	Sac. Pla	3	B, A, A	Bet. Sylvan School & Roseville	2.9	4/24/52	McGillivray Const. Co.	P.M.S. Borders	62,257
52-3TC20	Sacramento	3	B	Intrs. Auburn Blvd. with Fulton Ave. & with Watt Ave.		4/25/52	L. H. Leonardi Ele. Const. Co.	Lights & Signs	41,875
52-15T11	Sacramento	4	Sac	On 16th & 15th St. at R St.		9/21/51	Day Labor	Flashing Lights	8,500
3T104	Sacramento	6, 11	Sac	Capitol Ave. at 4th, 9th, & 30th Sts.		6/27/51	Day Labor	Signals	10,000
52-14TC16	Sacramento	11	E	Across Sacramento Riv., at Paintersville, 1 Mi. S. of Courtland		2/ 6/52	Barton Const. Co.	Redeck Stl. Truss Br.	43,530
52-3T13	Sacramento	11	E	At Sacramento Riv. Br. at Paintersville		4/24/52	Day Labor	Prepare, Sign & Maintain Detour	6,800
3T97	Sacramento	11	F, Sac	Bet. Suttersville Rd. E. & Suttersville Rd. W.	0.2	5/19/50	Day Labor	Widen & A.C. on C.T.S.	34,000
52-14TC3-F	Sacramento	54	C	Across Costumes Riv. near Bridge House		6/15/51	Erickson & Co.	R.C. Bridge	203,351

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
52-8VC11-F	San Bernardino	31	B	Bet. 0.6 Mi. N. of Devore & 0.2 Mi. S. of Gish UP.	9.3	8/20/51	Fredericksen & Kasler	Grade, P.M.S. on B.M., 4 R.C. Brs. & 2 R.C. Culvs.	\$2,140,000
52-8V12	San Bernardino	31	B	Bet. N. of Devore & S. of Gish UP.	9.3	12/ 5/51	Day Labor	Signs, Strips, & Erosion Control.	14,500
52-14VC10	San Bernardino	31	G, H, J, K	Bet. Barstow & Baker		10/30/51	Norman I. Fadel	Redeck 30 Timber Brs. with R.C. Slabs, Plank Floors & P.M.S.	166,752
52-8VC21	San Bernardino	31	J, K, L	Bet. Cronise Valley & 3 Mi. W. of Halloran Springs	26.7	6/27/52	G. W. Ellis Const. Co.	Widen & P.M.S.	236,467
53-8VC7-P	San Bernardino	31	Col, SBd	Ints. of Mount Vernon Ave. with Colton Ave. & with La Cadenia Ave.-Citrus St.-Grant Ave.		6/16/52	Paul R. Gardner	Signals, Lights & Chnlz.	26,619
52-14VC9	San Bernardino	58	F, G, H, J	Bet. Barstow & Amboy		10/25/51	C. B. Tuttle Co.	Redeck 48 Timber Brs. with R.C. Slabs, Plank Floors & P.M.S.	256,660
53-8VC2	San Bernardino	58	Bsw, E, F	Bet. Barstow & Daggett	8.1	4/ 1/52	Peter Kiewit Sons' Co.	Widen & P.M.S.	102,289
52-8V10	San Bernardino	188	A	Bet. Camp Seely & Cedar Springs	2.8	7/25/51	Day Labor	Widen Roadbed	25,000
52-8VC18	San Bernardino	190	C	On Highland Ave. Across Del Rosa Chunnel		3/28/52	Geo. Herz & Co.	R.C. Culvert	14,046
52-8VC20-P	San Bernardino	190	SBd	Intrs. Highland Ave. with Waterman Ave.		4/24/52	Fischbach & Moore, Inc.	Signals & Lights	5,453
	San Bernardino			Various Locations				Minor Contracts & D.L. Projects	*23,016
52-11VC10	San Diego	2	B, Ocn	Bet. Buena Vista Lagoon & ¼ Mi. S. of Mission Ave. in Oceanside	2.1	9/25/51	J. A. Payton & Bent Const. Co.	Grade, P.C.C., R.C. Br., R.C. OH., R.C. Sep., & 3 R.C. OC's.	1,733,967
53-11VC1-F	San Diego	2	B	Bet. 2.2 Mi. S. of Carlsbad & Buena Vista Cr.	4.4	4/23/52	Bressi & Bevanda Constructors, Inc.	Grade, P.C.C. on C.T.S., & 10 R.C. Strs., Br., OH., Fed. UC., 4 OC's, & 3 UC's.	2,405,434
11V60	San Diego	2	G, ChV, NatC, G, ChV	Bet. Elm Ave. & 18th St.		5/25/51	Day Labor	Signs & Stripe	9,960
52-11VC12	San Diego	2		Bet. Palm Ave. in Palm City & G St. in Chula Vista		2/ 6/52	Eiss-Hokin & Galvan	Signals & Lights	44,752
11V58	San Diego	2	NatC	Bet. 7th St. & 16th St.		4/19/50	Day Labor	Signal & Track Work	34,900
51-14VC23-F	San Diego	2	Ocn, C	Bet. 13 Mi. S. of San Luis Rey Riv. & Camp Pendleton	0.5	6/18/51	Charles MacClosky Co.	Widen Sll. Truss Br. & P.M.S. on Apprs.	1,026,740
52-11V12	San Diego	2	SD	Bet. San Diego Riv. & Cudahy Slough		3/ 5/52	Day Labor	Frontage Rds.	6,000

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
52-11VC17	San Diego	2	SD	On Pacific Hwy. at DeAnza Cove	0.4	6/20/52	Cox Bros. Const. Co.	Grade, P.M.S. & Chnlz.	\$46,003
53-11VC6	San Diego	2	SD, A, C	Bet. Balboa Ave. in San Diego & Las Flores (Por.)	7.6	6/27/52	R. E. Hazard Const. Co.	P.M.S.	114,892
51-14VC10	San Diego	12	D	Bet. Wildwood Glen & Descanso Jct.	0.8	11/18/50	Clyde W. Wood & Sons, Inc.	Grade, R.M.S. & Sll. Br.	394,961
52-11VC15	San Diego	195	A, F	Bet. Oceanside & Bonsall (Por.)	5.0	3/ 3/52	C. G. Willis & Sons, Inc.	Grade & R.M.S.	227,008
52-11VC11	San Diego	198	E	Bet. 0.4 & 6.1 Mi. E. of Julian (Por.)	4.0	1/ 2/52	E. C. Young	Grade & B.S.T.	164,130
52-14TC17-F	San Francisco	2	SF	Various Locations				Minor Contracts & D.L. Projects	*23,655
52-4TC38	San Francisco	2	SF	On 13th St. Bet. Mission St. & Rte. 68 At Jct. Richardson Ave. Off-Ramp & the Marino Connection		2/20/52	Chas. L. Harney, Inc.	Misc. Facilities & R.C. Figs.	550,835
52-4TC32	San Francisco	56	SF	Bet. Lake St. & Golden Gate Br. Viaduct		6/25/52	Abbett Ele. Corp.	Lights, Signs & Goro	9,283
15T7	S. F. Ala.	68.5	SF, Oak	Bet. Lake St. & Golden Gate Br. Viaduct		4/ 1/52	H. S. Tittle Co.	Revise Lights	16,672
4T138	San Francisco	68	SF	San Francisco-Oakland Bay Br.		6/ 30/50	Day Labor	Operation, Maint. & Insurance	1,493,924
4T139	San Francisco	68	SF	Bet. Augusta St. & 25th St.	1.3	9/21/50	Day Labor	Signs & Stripes	18,000
51-14TC31-F	San Francisco	68.2	SF	At 25th & Vermont Sts.		8/11/50	Day Labor	Signs	8,000
52-4TC31-F	San Francisco	68	SF	Bet. 18th St. & Bryant St.	0.7	6/22/51	Chas. Harney	Steel Br. (Portion)	3,583,509
52-4TC31-F	San Francisco	68	SF	Bet. Army St. & 17th St.	1.3	3/18/52	Fredericksen & Watson Const. Co. & M & K Corp.		
52-14TC22-F	San Francisco	68	SF	On Bayshore Frwy. Bet. 16th St. & 7th St.	0.7	5/22/52	Guy F. Atkinson Co.	Grade, P.C.C. & P.M.S. on C.T.B., Sll. OC. & 3 Sll. Ped. OC's.	1,561,005
52-14BBC1	S. F. Ala.	68	SF-OB	On San Francisco-Oakland Bay Br.		5/ 2/52	Herriek Iron Works	Portion, Sll. Br. & Ramps	3,229,087
	San Francisco			Various Locations				Painting Scaffold (Traveler) & Track Below U. Deck	220,290
52-14BC1-F	San Joaquin	5	B	Across Paradise Cut Overflow, about 6.7 Mi. E. of Tracy.		10/ 3/51	Nonellini Const. Co.	Minor Contracts & D.L. Projects	*6,800
53-14TC12	San Joaquin	5	D	Across Calaveras Riv. at Bellota	0.2	6/18/52	Thomas Const. Co.	R.C. Br. & P.C.C. on U.R.B. on Apps.	220,000
53-10TC2	S. J., Sta.	110	A, A, B	Bet. Jct. with Rte. 41 & 6.5 Mi. W. of Modesto	7.9	4/18/52	M. J. Ruddy & Son	R.C. Br. & Grade & P.M.S. on Apps.	53,300
52-10DC6	San Joaquin	FAS 543		On Pacific Ave. Bet. FAS Rte. 641 near Five Mile House NW. of Stockton & Stockton C. L.	2.7	9/18/51	Geo. Pollock Co.	P.M.S.	280,274
								Widen, Grade, U.R.B. on I.B.M., Pen. Tr. Sll. Ct. & R.C. Br.	169,000

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
52-10DC9	San Joaquin	FAS 543		On Pacific Ave. Bet. 5 Mile House & Calaveras Riv.	2.4	5/12/52	A. Teichert & Son, Inc.	Grade & P.M.S.	\$176,100
	San Joaquin			Various Locations				Minor Contracts & D.L. Projects	*14,475
52-3VC1	San Luis Obispo	2	B	Bet. 1 Mi. S. of Templeton & Paso Robles	6.0	4/25/51	Madonna Const. Co.	Grade	667,973
52-5VC0-FP	San Luis Obispo	2	B, PARs, A	Bet. 1.0 Mi. S. of Templeton & 0.2 Mi. N. of Paso Robles	9.0	6/18/52	Granite Const. Co.	Grade & P.M.S. on C.T.B.	727,557
52-14VC2-F	San Luis Obispo	2	SLO	At Santa Rosa St., at Ida St. & at S.P.R.R.		9/ 4/51	Granite Const. Co.	Grade, P.M.S. on C.T. I.B.M., R.C. OC., R.C. Sep. & Sol. UP.	620,553
52-14VC16-F	San Luis Obispo	2	SLO	At Marsh St., Stenner Cr., & Chorro St., & on N. Broad St.	0.5	1/28/52	C. B. Turtle Co.	Grade, P.M.S. on C.T.B., 2 R.C. U.C.s, R.C. Br. & Widen R.C. Br.	445,224
52-14VC19-F	San Luis Obispo	2	SLO	At Grand Ave. & at Buena Vista Ave.		5/ 5/52	Thomas Const. Co.	Grade, P.M.S., R.C. OC., & R.C. UC.	222,171
52-14VC7	San Luis Obispo	56	E	Across Los Berros Cr., about 2 Mi. SW. of Arroyo Grande	0.1	10/19/51	B. S. McElderry	R.C. Br. & Apps. Graded, P.M.S. on I.B.M. & Sl. Cts.	52,359
	San Luis Obispo			Various Locations				Minor Contracts & D.L. Projects	*23,775
53-4TC2	San Mateo	2	SM	Bet. 25th Ave. & 41st Ave.	1.0	4/ 1/52	L. C. Smith Co.	Widen with P.M.S. on C.T.B.	88,586
53-4TC12	San Mateo	2	SSF	Intrs. El Camino Real with Hazelwood Dr.-Spruce Ave.		6/13/52	R. Flatland	Signals, Lights, & Chnlz.	15,574
52-4T10	San Mateo	56	E, DIC	Bet. Edgemar & Thornton		8/ 2/51	Day Labor	Improve Drainage	30,000
52-4T12	San Mateo	68	D	At San Francisco Cr.		9/19/51	Day Labor	Bank Protection	9,000
52-4TC24-F	San Mateo	68	E	Bet. S.C.L. of San Francisco & 0.6 Mi. S.	0.5	1/24/52	Edward Keeble	Grade	175,098
52-4TC4-F	San Mateo	68	SM, C	Bet. N.C.L. and 0.1 Mi. S. of S.C.L. of San Mateo	2.6	4/ 1/52	Pionbo Const. Co.	Grade, P.C.C. on C.T.S., R.C. OC., R.C. Ped. OC., Interchange On-Ramp & Off-Ramp, & Widen R.C. Br.	1,780,063
				Bayshore Frwy. Bet. Dakota Ave. & Newbridge Ave.		4/21/52	Day Labor	Storm Drain	66,731
52-4T21	San Mateo	68	SM						
53-4TC5	San Mateo	68	SSF, F, Mbr, Burl	On Bayshore Frwy. Bet. Colma Cr. & Broadway	5.1	4/ 1/52	L. C. Smith Co.	Resurf. with P.M.S.	270,615
52-4DC9	San Mateo	FAS 1048		Portola & Alpine Rds. about 3 Mi. S. of Woodside	4.0	2/20/52	John Delphia	Grade & I.S.M.	105,500

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
	San Mateo			Various Locations				Minor Contracts & D.L. Projects	*\$25,545
51-5VC10-F	Santa Barbara	2, 56	E, A	Bet. Gaviota Gorge & 0.5 Mi. N. of Las Cruces	2.0	3/ 6/51	Granite Const. Co.	Grade & P.M.S.	672,592
52-5VC3	Santa Barbara	2	E	At Gaviota Gorge	0.1	6/18/51	Rhoades-Shofner Const. Co.	Tunnel & Apps.	780,000
53-5VC2-F	Santa Barbara	2	E	Bet. Gaviota & Gaviota Gorge	3.2	4/ 1/52	Clyde W. Wood & Sons, Inc.	Grade, P.M.S. on C.T.B. Widen R.C. Br. & Super-elevate R.C. Br. Deck.	1,289,728
52-5VC5-F	Santa Barbara	2	H, J	Bet. 0.5 Mi. E. of Arroyo Parida & Ortega Hill	3.7	8/10/51	Griffith Co.	Grade, P.C.C. on C.T.S. & 3 R.C. Brs. & R.C. Ped. UC	1,135,017
53-5VC3	Santa Barbara	56	E	Bet. Black Rd. & Point Sal Rd.	5.5	5/22/52	Valley Pav. & Contr. Co., Inc.	U.R.S. & Pen. Tr.	84,360
	Santa Barbara			Various Locations				Minor Contracts & D.L. Projects	*16,860
53-4TC3	Santa Clara	32	A	Bet. Ferguson Rd. & 5 Mi. E. of Gilroy	2.0	4/ 1/52	Fredrickson & Watson Const. Co.	Grade, P.M.S. & Shldr.	91,326
52-4TC23	Santa Clara	68	A	At Intra. of Bayshore Hwy. with Moffett Blvd. & at Moffett Field S. Gate (Por.)	0.2	12/28/51	J. C. Bateman, Inc.	Signals, Lights & Chnlz.	45,756
53-4TC9	Santa Clara	68	B	Intra. Bayshore Hwy. with Brokaw Rd.		6/ 5/52	R. Goold & Son.	Signals, Lights, & Chnlz.	14,679
52-4TC22	Santa Clara	69	A	Bet. 0.9 Mi. N. of Rte. 68 & 0.2 Mi. N. of Trimble Rd.	1.8	12/21/51	Fredrickson & Watson Const. Co. & M & K Corp.	Grade, P.C.C., P.M.S. & 3 R.C. Brs.	1,352,546
52-14T16	Santa Clara	113	A	At Mountain View Crossing on Alviso Rd.		5/13/52	Day Labor	Flashing Light Signals	7,600
52-4DC2-P	SCI, SCR	EAS 616		See Santa Cruz County					
52-4DC3	Santa Clara	EAS 1000		On San Jose-Stevens Cr. Rd., Bet. Bascom Ave. & Saratoga Ave.	2.2	8/27/51	A. J. Raich Pav. Co.	Grade & P.M.S. on I.B.M.	245,000
	Santa Clara			Various Locations				Minor Contracts & D.L. Projects	*18,300
52-14TC2	Santa Cruz	116	A	Across Fall Cr. about 6.4 Mi. N. of Santa Cruz		4/ 1/52	Chas. S. Moore & Robt. R. Murdoch	Repair Timber Br.	18,445
53-4TC6	Santa Cruz	116	A, B	Bet. Boulder Cr. & Waterman Gap	4.7	4/24/52	Granite Const. Co.	P.M.S.	281,340

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
52-4DC2-P	SCr, SCL	FAS 616		On Summit Rd., Bet. St. Hwy. Rte. 5 & Woodwardia	1.3	8/16/51	Granite Const. Co.	Grade, C.R.B. & Sl. Ct.	\$122,000
	Santa Cruz			Various Locations				Minor Contracts & D.L. Projects	*18,465
52-2TT19	Shasta	3	A	Intrs. Rte. 3 with Railroad Ave., S. of Redding		5/ 8/52	Day Labor	Improve Intrs.	8,000
52-2TT13	Shasta	3	C, D	Bet. Volmer's & Mears Cr.		8/23/51	Day Labor	Widen Roadbed	20,000
52-2TT16	Shasta	3	D	S. of Castella		3/ 5/52	Day Labor	Retaining Walls	18,600
53-2TC3	Shasta	28	C	Bet. Montgomery Cr. & 0.7 Mi. E. of Hatchet Cr.	3.4	5/29/52	Frederickson & Watson Const. Co.	P.M.S. & Drainage	58,997
53-14VC11	Shasta	28	C	Across Montgomery Cr. about 32 Mi. NE. of Redding	0.4	6/ 9/52	B. S. McElberry	R.C. Br. & Apps.	105,923
	Shasta			Various Locations				Minor Contracts & D.L. Projects	*10,220
53-3TC7	Sierra	25	A	Bet. 1.4 Mi. E. Yuba Co. Line & 1.5 Mi. W. of N. Yuba Riv.	0.8	5/28/51	Richter Bros.	Grade, B.S.T., & R.C. Br.	359,986
52-3DC7	Sierra	FAS 524		Bet. 5.2 & 0.5 Mi. W. of Loyalton (Por.)	3.4	8/16/51	Joe Chevreux	Grade & Pen. Tr. on I.B.M.	82,030
	Sierra			Various Locations				Minor Contracts & D.L. Projects	*925
52-2TT14	Siakiyou	3	A	Bet. Mt. Shasta & Weed		10/ 8/51	Day Labor	R/W Fence & Barriers	15,000
53-2TC2-F	Siakiyou	3	A	Bet. Dunsmuir & Big Canyon	4.3	5/ 9/52	A. Teichert & Son, Inc.	Grade & P.M.S.	1,116,445
53-14TC6	Siakiyou	46	A	Across Oak Flat Cr., 6.9 Mi. W. of Happy Camp		4/24/52	A. A. Edmondson	R.C. Bridge	34,432
2TT80	Siakiyou	46	B	Bet. Mile 6.68 & Mile 10.35, E. of Happy Camp	3.7	7/17/50	Day Labor	Widen, Prime & Sl. Ct.	23,800
52-2TT20	Siakiyou	46	C, D	Bet. Horse Cr. & Walker Br.	7.0	5/29/52	Day Labor	R/W Fencing	24,000
	Siakiyou			Various Locations				Minor Contracts & D.L. Projects	*10,070
52-10TT1	Sol, Yol	7, 6	A, E, Vac, D, E, I	Yacaville & Davis Connections		5/ 8/52	Day Labor	Remove & Readjust Access Facilities & Monuments	5,000
52-10TC13	Solano	7	B	1 Mi. N. of Cordelia UP		11/13/51	Baldwin, Straub Corp.	Truck Scales, Signals & Lights	30,832
51-10TC15-F	Solano	7	C, Vac, D	Bet. Alamo Cr. & Ulatas Cr.	1.7	12/28/50	Fredrickson Bros.	Grade, P.C.C. on C.T.S., P.M.S. on U.R.B., Std. OH. & Std. Br.	869,611

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
52-10TC12	Solano	7	C, Vac, D	At W. & E. Entrances to Vacaville, at Davis St. & at Mason St. OH.		10/30/51	L. H. Leonardi Ele. Const. Co.	Lights	\$16,128
53-10TC1	Solano	7	D	Bet. 2.5 Mi. N. of Vacaville & Midway	2.5	4/ 1/52	A. Teichert & Son, Inc.	Grade & P.M.S. on U.R.B.	140,047
52-10TC15-P	Solano	7	F, Val	At Intra. State Rte. 7 with Magazine St.		1/22/52	R. Fladand	Signals, Lights & Chnlz.	24,759
53-10TC3	Solano	7	F	Bet. Carquinez Br. & Vallejo Wye	0.8	5/15/52	Parish Bros.	Base & P.M.S.	86,800
1-10TC62-F	Solano	7, 8	H, B, A	Bet. Cordelia UP. & Ledgerwood Cr.	6.0	6/14/50	Parish Bros.	Grade, P.C.C., P.M.S. & 3 R.C. Brs., Sd. UP. & Sd. Sep.	1,299,585
52-10T12	Solano	7, 8	H, B, A	Bet. Cordelia UP. & Ledgerwood Cr.		6/ 4/52	Day Labor	Signs & Stripes	6,300
14T2	Solano	99	A	At E. Landing of Cache Slough Ferry		3/28/51	Day Labor	Ramp	21,000
52-10DC7-P	Solano	FAS 1101		On Broadway, Bet. Nebraska St. & 1.2 Mi. N.	1.2	10/19/51	A. G. Raisch Co.	Grade & P.M.S. on U.R.B.	240,000
4T14	Son. C. C.	1, 104, 75		Various Locations				Minor Contracts & D.L. Projects	*16,585
52-4TC9	Sonoma	1	A, B, C, WLC, B	Bet. Cloverdale & Santa Rosa, Sebastopol & Cotati, & Walnut Cr. & Concord (Por.)	13.3	1/ 5/51	Day Labor	Subseal	55,000
52-4TC13	Sonoma	51, 104	A, B	Bet. Cloverdale & Santa Rosa	8.9	7/27/51	J. R. Armstrong	Grade & P.M.S.	303,921
			C, SRo, A; C	Bet. Purple Draw & 0.9 Mi. E. of Santa Rosa & Bet. Cotati & Sebastopol (Por.)			Arthur B. Siri, Inc. & E. A. Forde	Grade, P.M.S., C.T.B. & C.R.B.	245,843
53-4TC10	Sonoma	56	C	Near Honeycomb Gulch about 7 Mi. N. of Jenner	4.9	8/30/51	Huntington Bros.	Grade & P.M.S.	100,000
52-4TC28	Sonoma	104	A	Bet. ½ Mi. W. of Monte Rio & Northwood	0.4	6/ 9/52	Eaton & Smith	Grade & P.M.S. on I.B.M.	109,851
52-4DC1-P	Sonoma	FAS 777		On Petaluma-Valley Ford Hwy., Bet. 1.0 Mi. E'ly & 1.7 Mi. W'ly of Valley Ford, about 19 Mi. W. of Petaluma	2.7	8/ 9/51	Pike & Hill, Carey Bros., & Bailey	Grade, I.B.M. on I.S.M. & Sd. Ct.	192,000
	Sonoma			Various Locations				Minor Contracts & D.L. Projects	*41,315

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
52-10TC4	Sta, Mer-----	4	A, C, Mer, A	See Merced County	0.6	10/30/51	United Conc. Pipe Corp.	Widen, P.M.S. on U.R.B., & Pumping Plant-----	\$156,254
52-10TC11	Stanislaus-----	4	A	Bet. N.C.L. of Turlock & 0.6 Mi. NW'ly-----					
53-10TC4	Stanislaus-----	41	A, B, New	5 Locations in Vicinity of Newman, Crows Landing & Westley-----	1.9	6/ 4/52	B. J. Ukropina, T. P. Polich & Steve Kral-----	Grade & P.M.S.-----	181,147
53-10TC2	Sta, S. J.-----	110	A, B, A	See San Joaquin County					
52-10DC8	Stanislaus-----	FAS 912, 914		On Santa Fe Ave. & Geer Rd., Bet. 1 Mi. S. of Empire & Monte Vista Rd.-----	7.6	4/18/52	United Conc. Pipe Corp.	P.M.S. on U.R.B.-----	141,800
	Stanislaus-----			Various Locations				Minor Contracts & D.L. Projects-----	*4,200
52-3TC18	Sutter-----	15	A, B	At 13 Locations Bet. 1 Mi. E. of Meridian & 3 Mi. W. of Yuba City-----		3/12/52	Commercial Const. Co.	Adjust Drains & Irrig. Facilities-----	17,144
	Sutter-----			Various Locations				Minor Contracts & D.L. Projects-----	*300
52-14TC15	Tehama-----	3	A, D	At Various Locations Bet. Deer Cr. Overflow & Mill Race Cr.-----	0.3	11/17/51	Erickson, Phillips & Weisberg-----	Widen 14 R.C. Brs. & Apps. & Resurf. with P.M.S.-----	621,506
53-14TC9	Tehama-----	47	B	Across Deer Cr. about 48 Mi. NE. of Chico-----		5/22/52	R. E. Hertel-----	R.C. Br. & Apps.-----	93,054
	Tehama-----			Various Locations				Minor Contracts & D.L. Projects-----	*6,275
53-14TC3	Trinity-----	20	D	Across Big French Cr., 27 Mi. W. of Weaverville-----		4/1/52	Laredon Const. Co.	R.C. Br.-----	37,558
52-14TC19	Trinity-----	35	A	Across S. Fork Trinity Riv., about 22.2 Mi. W. of Hayfork-----		4/11/52	Laredon Const. Co.	Remove & Replace Std. Br. Superstr.-----	61,304
	Trinity-----			Various Locations				Minor Contracts & D.L. Projects-----	*7,300
53-6VC1-F	Tulare-----	4	A, B	Bet. 0.5 Mi. N. of Pixley & 1 Mi. S. of Tipton-----	4.8	6/ 4/52	Gordon H. Ball & Son Remon Valley Land Co.	Grade, P.C.C. & P.M.S.-----	597,426

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
51-6YC5-F	Tulare	4, 134	B, Tul, F, B	Bet. Tulare Airport & Tagus	7.8	10/20/50	United Conc. Pipe Corp.	Grade, P.C.C. on C.T.S., P.M.S. on U.R.B., Std. Br. & Std. UP.	\$969,503
52-6YC8-F	Tulare	4	B, Tul, F	Bet. Tulare Airport & Tagus		4/18/52	Gordon H. Ball & San Ramon Valley Land Co., & Trehitt, Shields & Fisher	Grade, P.M.S. on Ramps, Frontage Rds. & 6 R.C. OC's.	918,011
52-6YC9	Tulare	134	Tul	Intrs. of Tulare St. with M St.		5/ 1/52	L. H. Leonardi Ele. Const. Co.	Signals	5,718
52-6TC7-P	Tul, Kin	135	A, B	See Kings County					
52-14DC9	Tulare	FAS 1127		Across Tule Riv. & Poplar Ditch, about 1/4 Mi. S. of Porterville		9/21/51	Trehitt-Shields & Fisher	R.C. Br.	193,000
52-6DC7-P	Tulare	FAS 1130		On Poplar Rd., Bet. 6 Mi. S. of Poplar & Poplar	6.0	3/24/52	Baum Const. Co.	Grade & R.M.S. on C.T.B.	171,400
52-6DC2-P	Tulare	FAS 1134		On Frazier Valley Hwy., Bet. Strathmore & 3.5 Mi. E.	2.9	7/24/51	Griffith Co.	Grade & R.M.S. on L.S.M. & I.B.M.	110,329
	Tulare			Various Locations				Minor Contracts & D.L. Projects	*22,200
51-10TC18-F	Tuolumne	13	B, Sra	Bet. Jamestown & Sonora	3.3	6/ 8/51	Harnis Bros.	Grade, P.M.S. on U.R.B., R.C. Curb. & Widen Std. Br.	635,734
53-10TC5	Tuolumne	13	B	At E. & W. Entrances to Jamestown		6/25/52	Sacramento Ele. Works	Lights	3,954
10T79	Tuolumne	40	B	Bet. Big Oak Flat & Chinese Camp	0.4	6/30/50	Day Labor	Grade & R.M.S.	15,000
10T80	Tuo, Mpa	110	A, B	Bet. Stanislaus Co. Line & Coulterville	3.0	7/30/50	Day Labor	Grade & Pen. Tr.	25,000
52-10T10	Tuo, Mpa	110	A, B, A, B	Bet. Stanislaus Co. Line & Coulterville (Por.)	3.4	9/19/51	Day Labor	Grade & Pen. Tr.	25,000
14V2	Ventura	2	B	At S.P.R.R. Crossing in Canarillo		9/21/49	S.P.R.R. Co.	Signals	13,702
52-7VC35	Ventura	2, 154	C, A	At Intra. Ventura Blvd. with Saviers Rd.-Vineyard Ave.		3/24/52	C. D. Draucker, Inc.	Signals & Lights	12,617
52-7VC39	Ventura	2	C	On Ventura Blvd. at the Montalvo Scales	0.5	4/25/52	Baker & Pollock	Grade & P.M.S.	35,062
52-7V33	Ventura	9	C	Across Arroyo Simi		4/15/52	Day Labor	Repair Br.	6,805
52-7VC41	Ventura	60	A	Bet. Point Mugu & Little Sycamore Cr.		6/ 5/52	J. B. Stringfellow Co.	Riprap	166,800
52-7VC34	Ventura	153	Oxn	Bet. Oxnard Blvd. & E.C.L.	0.6	3/18/52	Baker & Pollock	Grade & P.M.S. on U.R.B.	83,389

INCOMPLETE CONTRACTS—Continued

Contract number	County	Route	Section	Location	Miles	Contract date	Contractor	Type of work	Allotment
52-14VC21	Ventura	155	B	Across Arroyo Pas Pecos, 0.5 Mi. S. of Moorpark.	0.1	6/27/52	O. B. Pierson	R.C. Br. & Grade & P.M.S. on Apps.	\$75,645
52-14DC7-P	Ventura	FAS 876		Across Santa Clara Riv. at Santa Paula.	0.2	8/30/51	O. B. Pierson	Std. & R.C. Br. & P.M.S. on U.R.B. on Apps.	451,500
	Ventura			Various Locations				Minor Contracts & D.L. Projects	34,675
52-14T12	Yolo	6	C	West Sacramento Freeway		11/ 7/ 51	Day Labor	Relocate S.N. Ry. Tracks	160,000
52-3TC14	Yolo	6	C	On W. Sacramento Frwy. Bet. Yolo Causeway & 0.8 Mi. W. of Tower Br.	3.3	10/19/51	United Conc. Pipe Corp.	Grade	683,063
52-14TC24-F	Yolo	6	C	West Sacramento Frwy. near Sacramento at Third St. W. of Tower Br.		6/20/52	B. J. Ukropina, T. P. Polich & Steve Kral.	R.C. Undercrossing	77,052
52-3TC25	Yolo	6	C	Bet. 0.8 Mi. & 0.1 Mi. W. of Tower Br.	0.7	6/27/52	B. J. Ukropina, T. P. Polich & Steve Kral.	Grade, P.C.C., & Pump. Plant.	198,833
52-3TC23	Yolo	50	E, F	Bet. 0.5 Mi. N. of Kissel & 2 Mi. S. of Kissel.	2.4	6/10/52	A. Teichert & Son, Inc.	Grade & P.M.S.	235,438
	Yolo			Various Locations				Minor Contracts & D.L. Projects	*13,000
53-3TC3	Yuba	15	A	Bet. 0.3 Mi. W. & 1.6 Mi. E. of Seven Mile House.	1.7	6/ 4/52	Rice Bros., Inc.	R.M.S. & Base	28,466
52-3TC22	Yuba	15	Mvl, A	At NE 1/4 C.L. of Marysville	0.2	6/ 5/52	Rice Bros., Inc.	Grade, U.R.B., & Sl. Ct.	20,000
52-3DC2	Yuba	FAS 526		Bet. 5 Mi. E. of Browns Valley & 0.9 Mi. E. & Bet. 7 Mi. E. of Stanfield Hill & Frenchtown Rd.	2.8	5/ 9/52	Richter Bros.	Grade & Pen. Tr.	111,280
	Yuba			Various Locations				Minor Contracts & D.L. Projects	*7,435

APPENDIX D
AVERAGE CONTRACT PRICES
1912 to 1952

AVERAGE CONTRACT PRICES,⁴ 1912 TO 1952

Year (beginning July 1, 1920, costs are for fiscal years ending June 30 of year shown)	Grading ² (per cu. yd.)	Class "A" (6 sacks per cu. yd.) Portland cement concrete pavement (per cu. yd.)	Class "B" ³ (5 sacks per cu. yd.) Portland cement concrete pavement (per cu. yd.)	Asphalt concrete (per ton)	Plant mixed surfacing (per ton)	Crusher run base (per ton)	Portland cement structures (per cu. yd.)	Bar reinforcing steel (per lb.)	Structural steel (per lb.)
1912	\$0.39		\$5.82	\$6.04					
1913	0.46		5.91	6.46					
1914	0.51		6.75	6.71					
1915	0.45		6.26	6.80					
1916	0.37		6.37						
1917	0.73	\$8.03		8.52					
1918	0.78	10.51							
1919	0.96	13.08		9.07					
1920 ¹	1.10	16.25							
1921	0.94	17.34		9.40					
1922	0.71	14.29		7.92					
1923	0.74	13.18		8.10					
1924	0.75	13.49		7.27					
1925	0.59	10.85		6.43					
1926	0.44	10.58		5.13					
1927	0.50	10.74		5.68					
1928	0.56	10.23		4.70					
1929	0.45	10.23		4.52					
1930	0.42	8.69		4.46					
1931	0.32	8.43		3.74					
1932	0.28	7.17		3.17					
1933	0.23	5.94		2.72					
1934	0.27	7.33		3.17					
1935	0.29	8.00		3.37					
1936	0.42	8.52	7.44	3.36					
1937	0.36	7.72	7.50	3.31					
1938	0.29	8.00	7.33	2.84					
1939	0.29	7.58	7.98	2.94					
1940	0.22	7.44	7.58	2.97	\$2.19	\$1.54	\$18.33	\$0.040	\$0.083
1941	0.29		7.34	3.18	2.84	2.31	23.31	0.053	0.107
1942	0.35		9.62	4.16	4.02	2.81	29.48	0.073	0.103
1943	0.40		11.48	4.76	3.71	2.26	31.76	0.059	0.080
1944	0.50		10.46	4.50	4.10	2.45	31.99	0.054	0.132
1945	0.51		10.90	4.88	4.20	2.42	37.20	0.059	0.102
1946	0.41		9.48	4.68	4.00	2.45	37.38	0.060	0.099
1947	0.46		12.38	5.38	4.32	2.42	48.44	0.080	0.138
1948	0.55		13.04	5.38	4.30	2.43	49.86	0.092	0.126
1949	0.49		12.28	4.64	4.67	2.67	48.67	0.096	0.117
1950	0.40		11.11	3.75	4.26	2.25	43.45	0.079	0.094
1951	0.49		12.21	5.00	4.34	2.62	47.22	0.102	0.159
1952	0.56		13.42	4.38	5.00	2.99	48.08	0.098	0.150

¹ Only a 6-month period, January 1, 1920, to June 30, 1920.

² Includes all earthwork to 1924. Does not include structure excavation since 1924. Roadway excavation only since 1939.

³ 1 1/2:1 mixture used 1912 to 1916.

⁴ Weighted averages.

